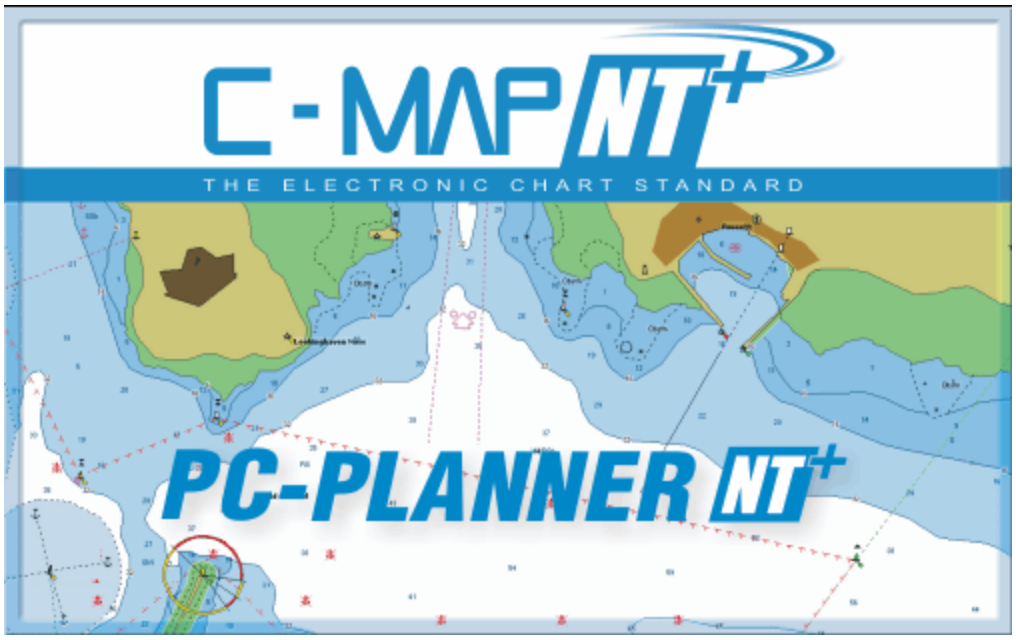


User Manual

July 2002 - Version 3.D

PC-PLANNER NT+ User Manual V.3.D

Table of Contents

1. INTRODUCTION 4

2. PRODUCT SPECIFICATION 4

2.1. REQUIREMENTS 4
2.2. PC-PLANNER NT+ WITH PPCCR-1 (C-MAP CODE: R1PR1100XX) 4
2.3. PC-PLANNER NT+ WITH PPCCR-2 (C-MAP CODE: R1PR2100XX) 4
2.4. PC-PLANNER NT+ WITH USBCC READER (C-MAP CODE: R1UR1100XX2) 4
2.5. PC-PLANNER NT+ V3.XX RELEASE NOTES 5

3. INSTALLATION 5

3.1. USBCC READER DRIVERS INSTALLATION 7
3.1.1. Note for WINDOWS XP users 9
3.2. PPCCR READER DRIVER INSTALLATION 10
3.2.1. PPCCR Reader Notes 10

4. GETTING STARTED 11

4.1. ENTERING THE REGISTRATION CODE 11
4.2. INSERTING A C-CARD 12
4.3. REMOVING A C-CARD 12

5. FUNCTIONS 13

5.1. GENERAL 13
5.1.1. The File Manager 13
5.1.2. Print 16
5.1.3. Data Receiving 17
5.2. CHART FUNCTIONS 17
5.2.1. Pan 17
5.2.2. Zoom 17
5.2.3. Info 17
5.2.4. A-B 18
5.2.5. Chart Settings 19
5.3. USER POINTS HANDLING 20
5.3.1. Add UP 20
5.3.2. Del UP 21
5.3.3. Move UP 21
5.4. MANAGING ROUTES 21
5.4.1. Creating a new Route 21
5.4.2. Editing a Route 22

6. MENU BAR 23

6.1. USER DATA: EDITING AND TABLES 23
6.1.1. User Points List 23
6.1.2. Route List 25
6.1.3. Track List 27
6.2. FIND FUNCTIONS 28
6.2.1. Nearest Ports 28
6.2.2. Nearest Port Services 29
6.2.3. Nearest Tide Stations 31
6.2.4. Nearest Wrecks 32
6.2.5. Nearest Obstructions 33
6.3. VIEW: OPTIONS AND SETTINGS 34
6.3.1. Settings/Setup 35
6.4. FILE 36

6.4.1. Save screen as… *36*

7. USBCC USER REGISTRATION **36**

8. PC-PLANNER NT+ SUPPORT **38**

Warning

Electronic charts, displayed by the PC-PLANNER NT+, are believed to be accurate and reliable, but they are not intended to be a substitute for the official charts, which should remain your main reference for all matters related to safe navigation.

For this reason we would like to remind you that you are required to carry on board and use the officially published and approved nautical charts.

Caution

- ✍ Please read through this manual before the first operation. If you have any questions please contact your local C-Map dealer.
- ✍ The C-Map NT C-CARD cartridges are available from your local dealer.

1. Introduction

The PC-PLANNER NT+ is designed to turn your home computer into a navigational planning tool. Using the same C-MAP *NT/NT+* electronic chart C-CARDs that you use on your boat, it is possible to display all of your electronic charts in full color on your PC screen. The PC-PLANNER NT+ can be used for viewing charts, zooming, panning, entering user points, creating routes, and entering A-B functions. In fact, every planning function of your chart plotter is now easy to do on your PC.

PC-PLANNER NT+ runs only if a C-CARD reader is connected to your PC. The C-CARD readers available are the PPCCR-1 and PPCCR-2 for the PC parallel port and the USBCC for the USB port. All of them have a dual slot cartridge holder and allow 2 C-CARDs to be read simultaneously. These C-CARD readers transmit the chart data to the PC and also allow programming of C-MAP 128KB USER C-CARD and C-MAP 1MB WIDE USER C-CARD. **NOTE: Please check with your dealer the compatibility of your chart plotter with these two types of USER C-CARD.**

For customers who have the C-MAP NT PCMCIA type cartridges, your cartridges will plug directly into the laptop PC. However, a C-CARD reader is still required in order to run the PC-PLANNER NT+ program.

2. PRODUCT SPECIFICATION

2.1. Requirements

- Windows 95/98, ME, 2000, XP
- 8MB RAM
- 4MB free Hard Disk
- Video Resolution: 800x600 or higher
- Video Colors: 65536 (high-color, 16bits)
- C-CARD READER PPCCR-1/PPCCR-2 (Power consumption 35mA @ 12 volts) or USBCC Reader
- Available Parallel Port or USB port.

2.2. PC-PLANNER NT+ with PPCCR-1 (C-MAP Code: R1PR1100XX)

- CD-ROM containing the PC-PLANNER NT+ installation software and this User Manual
- PPCCR-1 C-MAP Parallel Port C-CARD reader
- PC Parallel Port Cable
- 220/9VDC Power Supply

2.3. PC-PLANNER NT+ with PPCCR-2 (C-MAP Code: R1PR2100XX)

- CD-ROM containing the PC-PLANNER NT+ installation software and this User Manual
- PPCCR-2 C-MAP Parallel Port C-CARD reader
- PC Parallel Port Cable
- 220/9VDC Power Supply

2.4. PC-PLANNER NT+ with USBCC Reader (C-MAP Code: R1UR1100XX2)

- CD-ROM containing the PC-PLANNER NT+ installation software and this User Manual
- USBCC C-MAP NT LINK C-CARD reader

2.5. PC-PLANNER NT+ V3.xx RELEASE NOTES

Please note that:

For PPCCR-1 or PPCCR-2 C-Card reader users:

1. Under WINDOWS NT and WINDOWS 2000 it is not possible to read or write the USER C-Card so this functionality is not working.
2. It is not possible to print using other WINDOWS applications while the PC-PLANNER NT+ is running.

For all users:

3. The print function and quality depends on the type of printer used.

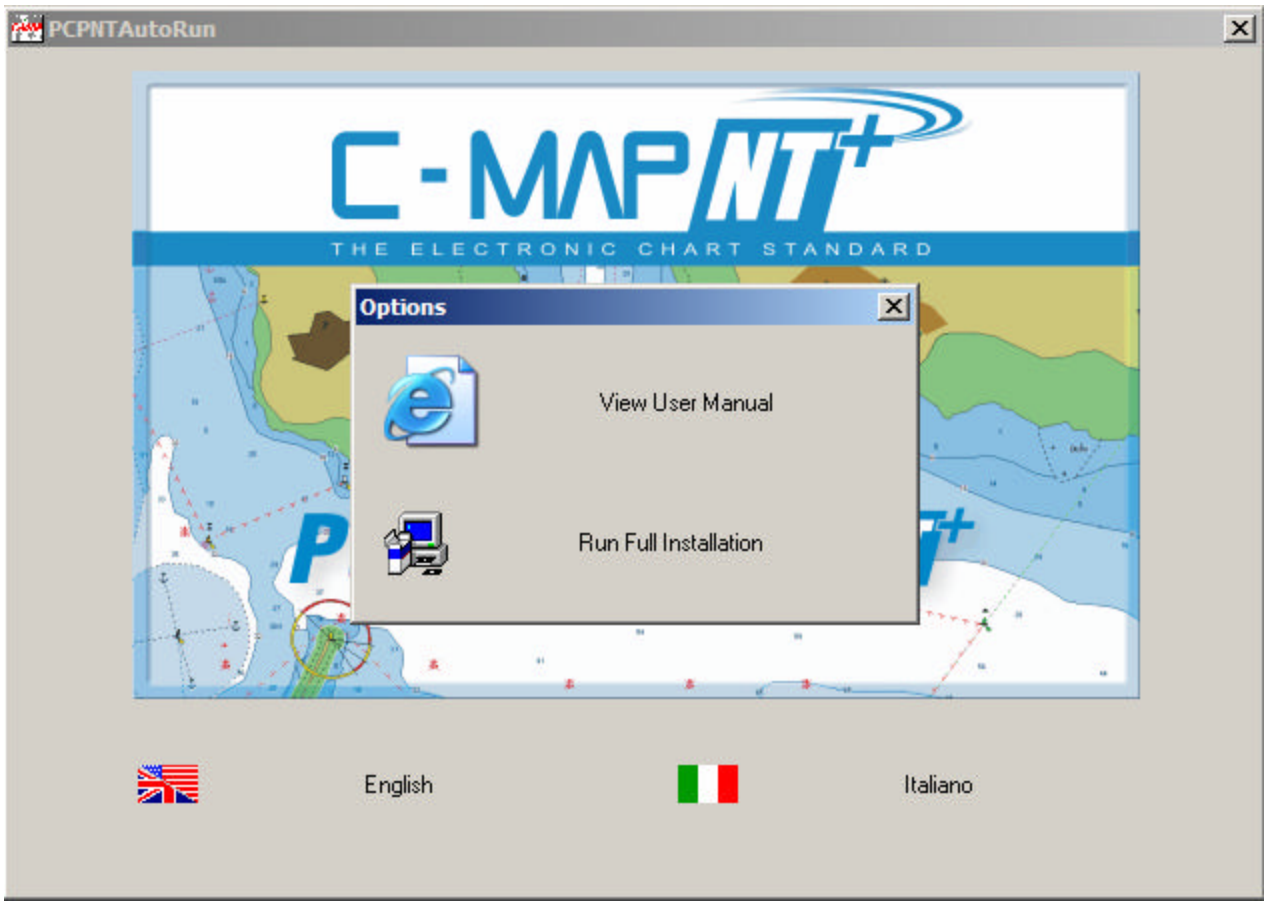
Please check out the PC-PLANNER NT+ WEB Site for the RELEASE NOTES for the latest version.

3. INSTALLATION

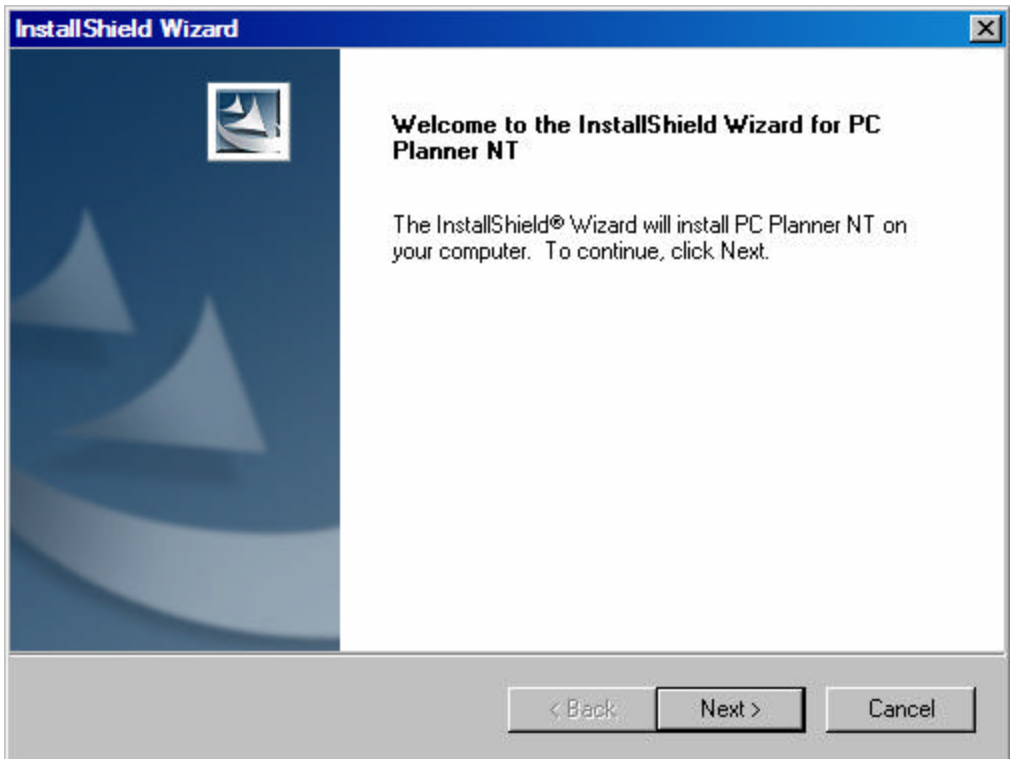
VERY IMPORTANT NOTE

If you have a previous PC PLANNER NT software (V3.02 or previous) installed into your PC, it is necessary that you uninstall it first. To do so, you should use the Uninstall function into "Control Panel/Add or Remove Programs". Also, you should check that the USBCC Driver installed is the V4.0.0.0 or higher to have the full support for the WIDE USER C-CARD

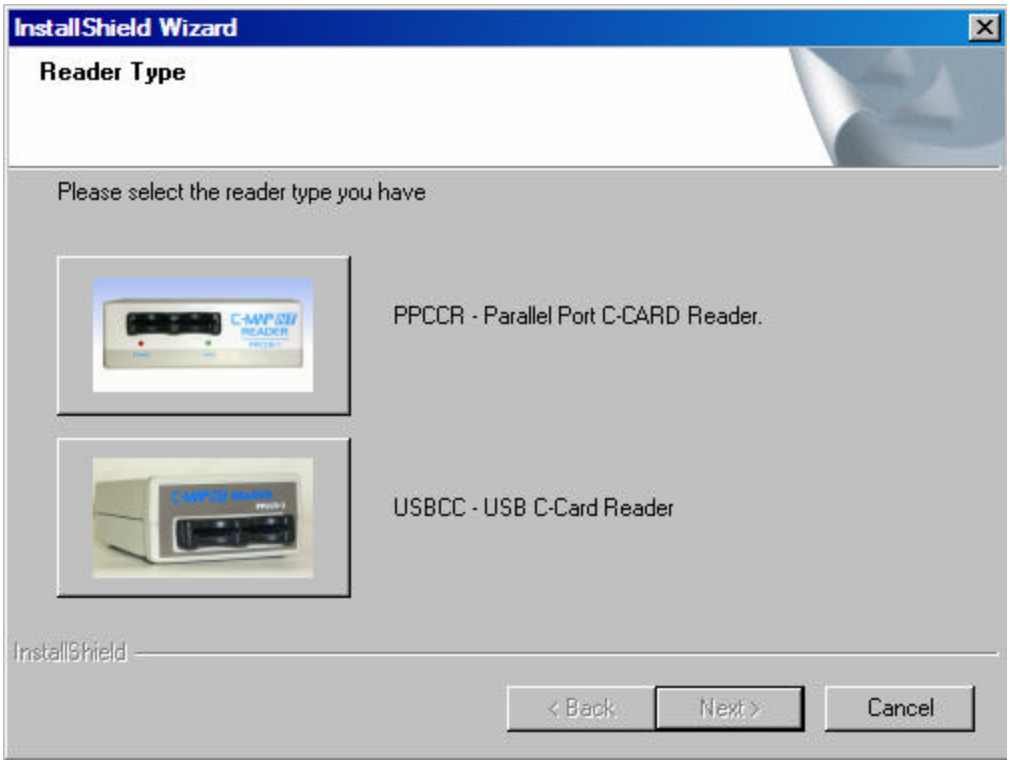
Inserting the PC-PLANNER NT+ CD-ROM into the CD-ROM reader of your PC, the PCPNTAutoRun software will be lunched allowing you to select the language of the installation (but not the language of the PC-PLANNER NT+ it selves that can be set into the software).



Clicking “Run Full Installation”, the SETUP program will be lunched.


InstallShield Wizard
Welcome to the InstallShield Wizard for PC Planner NT
The InstallShield® Wizard will install PC Planner NT on your computer. To continue, click Next.
< Back
Next >
Cancel

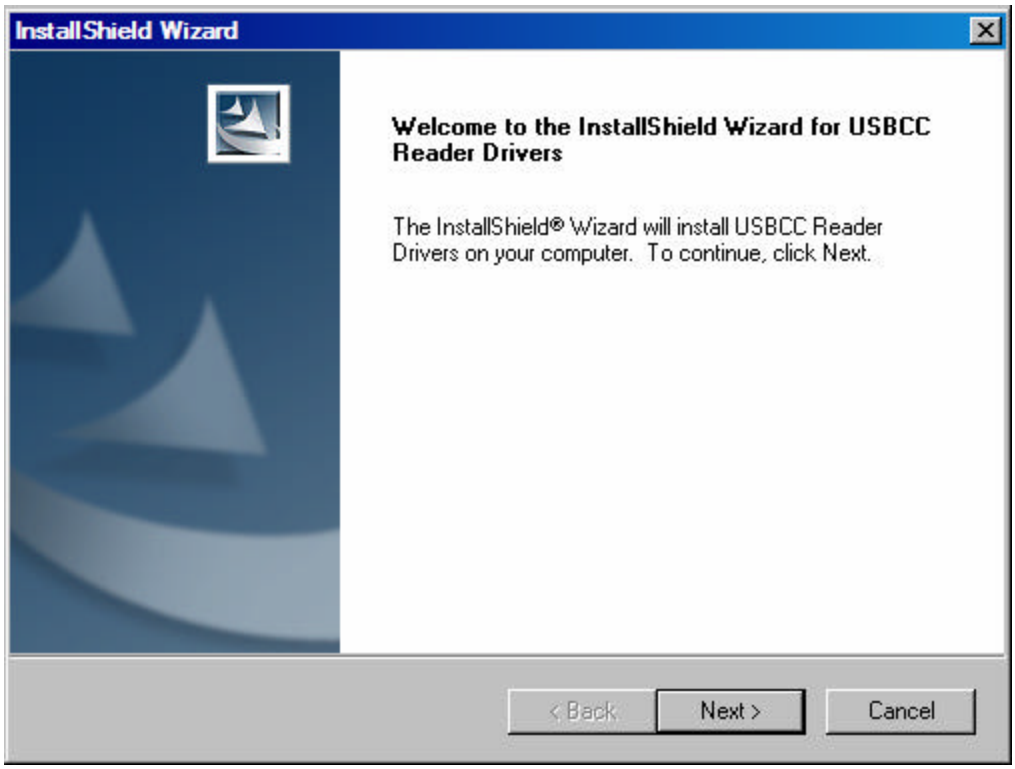
During the installation process, you will be prompted to select the C-CARD reader interface you plan on using, either a PPCCR or a USBCC.



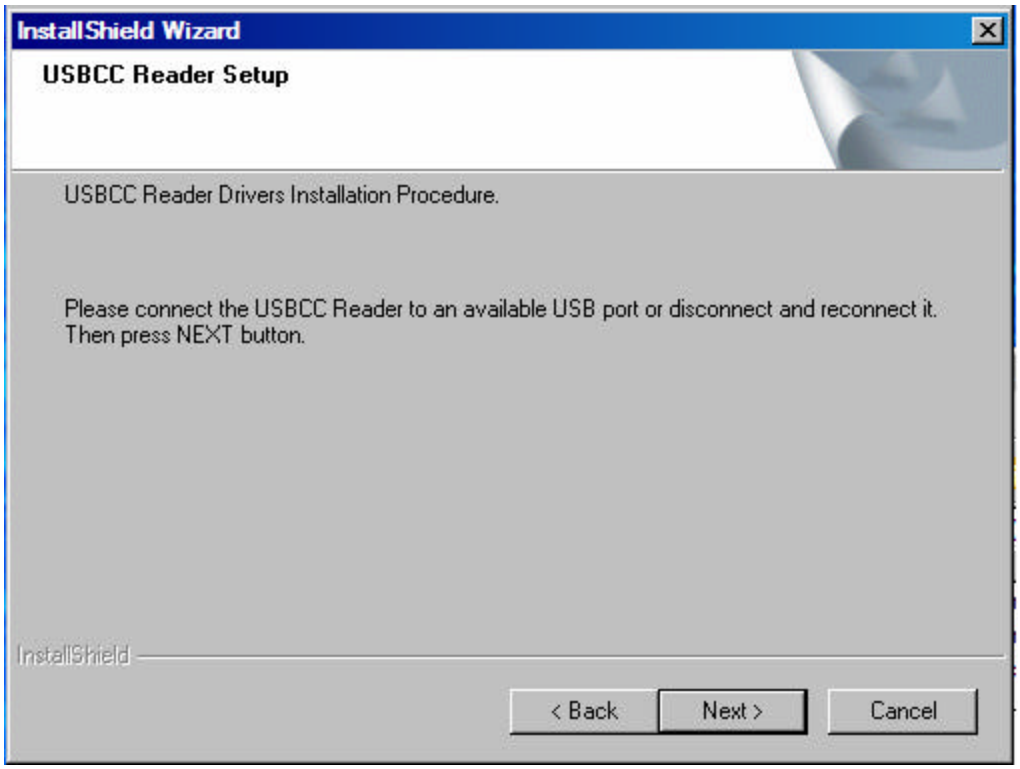
Selecting **USBCC – USB C-Card Reader** and following the on-screen instructions will automatically detect, install and setup the USB drivers for the USBCC reader.

Selecting **PPCCR - Parallel Port C-CARD Reader** and following the on-screen instructions will automatically detect, install and setup the PPI drivers for the PPCCR reader.

3.1. USBCC Reader Drivers installation


InstallShield Wizard
Welcome to the InstallShield Wizard for USBCC Reader Drivers
The InstallShield® Wizard will install USBCC Reader Drivers on your computer. To continue, click Next.
< Back
Next >
Cancel

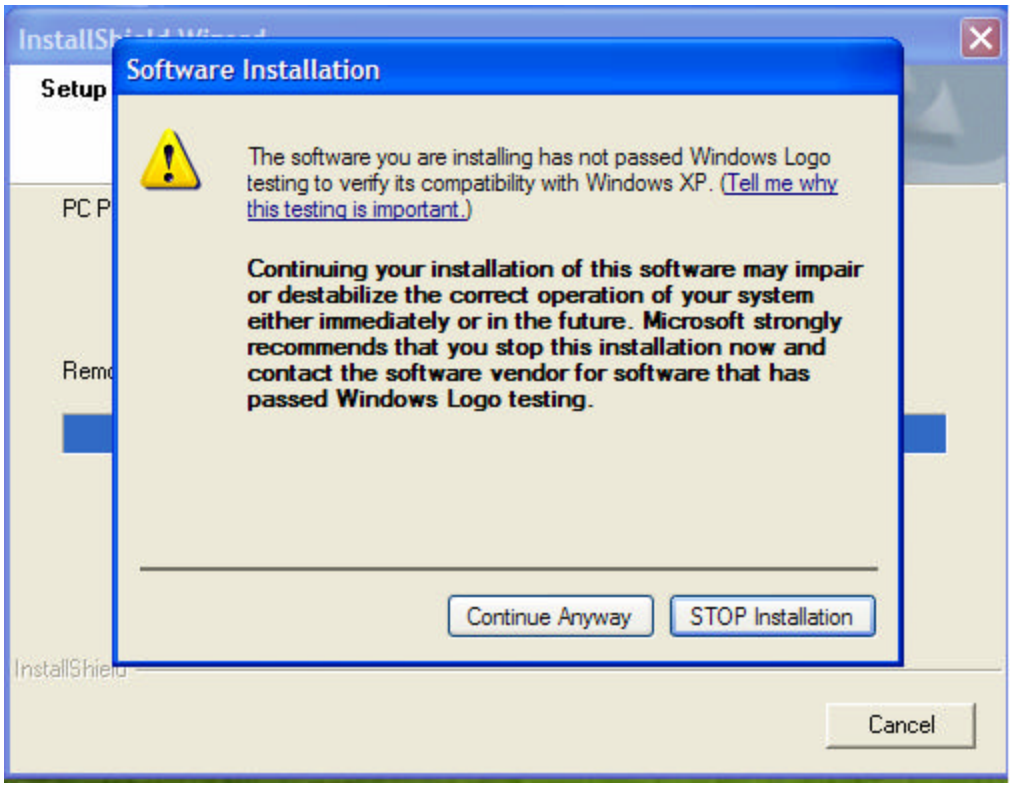
Selecting “Next” the installation process will start. Eventually you will see on the screen the following window, then follow the instruction:


InstallShield Wizard
USBCC Reader Setup
USBCC Reader Drivers Installation Procedure.
Please connect the USBCC Reader to an available USB port or disconnect and reconnect it. Then press NEXT button.
InstallShield
< Back
Next >
Cancel

If you are using WINDOWS95/98/ME or 2000, the WINDOWS plug&play system will show you various windows with the status of the installation. At the end, going into the **WINDOWS Device Manager** and looking at **Universal Serial Bus controllers** you should find one item called **C-Map USBCC Reader**. In case of problems, the USBCC drivers are copied into the directory **\Program Files\C-MAP\USBCC Drivers**.

3.1.1. Note for WINDOWS XP users

The PC-PLANNER NT+ USBCC driver is not checked yet for WINDOWS XP Logo testing. When the following screen will appear, you should select “Continue Anyway” to continue the installation.


Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation
Setup
Cancel

Then the following screen will appear:

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
C-Map USB Reader Before Firmware Download
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Just selecting “Next>”, the drivers will be installed into your system.

3.2. PPCCR Reader Driver installation

Following the on screen instructions, the driver will be installed into your system.

3.2.1. PPCCR Reader Notes

You will need to connect the C-CARD reader to your PC. Using the 25 pin D-Type Male to Male cable supplied. Connect the 25 pin female printer port connector, on the rear of your PC, to the lower 25 pin female connector, on the rear of the C-CARD reader (labeled - ‘PC PARALLEL PORT’).

If you still wish to connect a printer to the PC, connect the printer cable to the upper 25 pin female connector, on the rear of the C-CARD reader (labeled – ‘PRINTER PORT’). Always ensure that the printer is turned on before trying to run the PC-PLANNER NT+ software.

Finally, connect the supplied power supply adaptor lead into the small jack-plug socket on the rear of the C-CARD reader. Make sure that the voltage selector switch is correctly set to 12v.

IMPORTANT NOTE

Ensure that the red power light on the C-CARD reader is brightly lit. Please note that the LED will light at ¾ brightness even without the power supply adaptor connected – it receives some power through the connection to the PC’s printer port. However, the C-CARD reader may not work correctly without a good 12v supply from the power supply adaptor.

4. GETTING STARTED

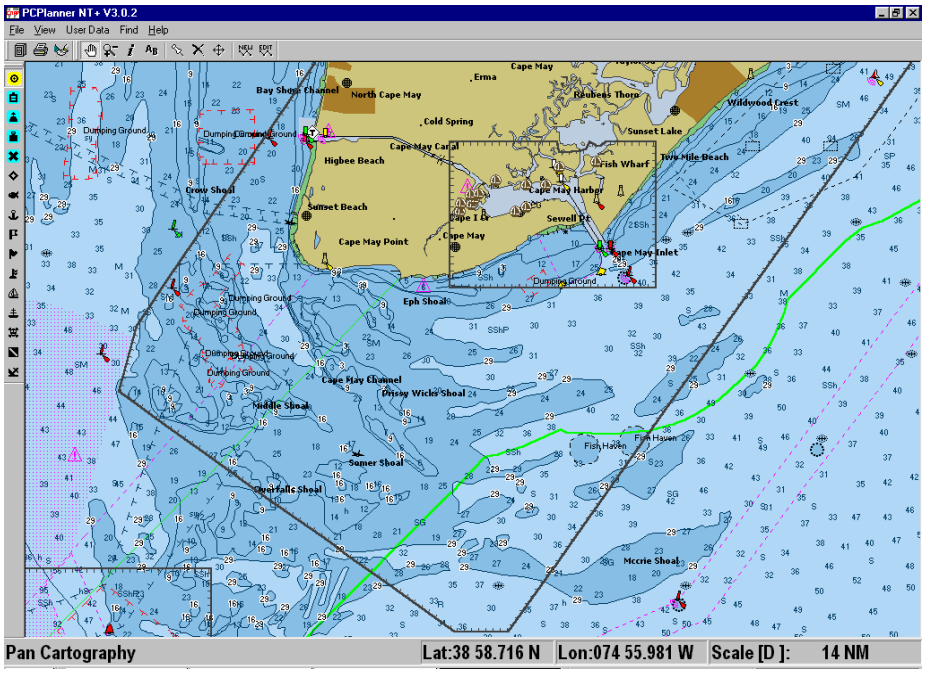
This section provides basic information to get you started using the PC-PLANNER NT+.

Once installation is complete, the PC-PLANNER NT+ program is automatically accessible from either your program list (through the START menu) or from the PC-PLANNER NT+ icon on your desktop.

4.1. Entering the REGISTRATION CODE

The first time that PC-PLANNER NT+ runs with the USBCC reader connected, it is necessary to enter a registration code. The code is written on a label on the bottom of the USBCC reader (if it has been bought as PC-PLANNER NT+ software package) or can be obtained from the C-MAP Italy Call Center (please see the end of this manual for details).

The PC-PLANNER NT+ has a built in world map. However, to see detailed charts, it is necessary to insert your C-MAP C-CARD into one of the slots of the C-CARD Reader.

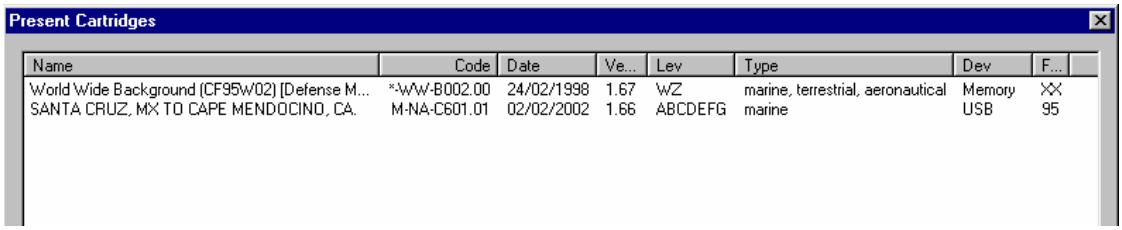


4.2. Inserting a C-CARD

Check that the C-CARD is the correct format and the required charts are stored on it. Hold the C-CARD by the short smooth side so that you can see the C-MAP label. Gently push the C-CARD into one of the two slots; push the C-CARD in as far as it will go, then push it down to lock it into the slot.

You can insert two C-CARDs or USER C-CARDs into the PC-PLANNER NT+ and the software will automatically detect them during its start up. If you have inserted the C-CARD correctly, when you run the PC-PLANNER NT+ software, the boundary of each chart stored in the C-CARD is shown as a rectangle.

It is possible to see which C-CARD cartridges are present in the C-CARD reader by clicking on **User Data**, and selecting **Present Cartridges…**



The World Wide Background Chart will always be present.

Click on OK to exit this dialog box.

4.3. Removing a C-CARD

Press lightly on the C-CARD you wish to remove and move it to the top until you hear a click. The C-CARD will be ejected out of the slot.

You can insert and remove C-CARDs while the PC-PLANNER NT+ software is running without any problems. However, the program will not detect the change of C-CARD until the next **Zoom** or **Pan** operation.

5. FUNCTIONS

This toolbar is displayed at the top of the screen on your PC when the PC-PLANNER NT+ application is running.

Each of the Icons in the toolbar selects a different mode of operation. Left clicking the relevant icon selects that mode and displays the icon in light gray to indicate it is active. The PC-PLANNER NT+ program will stay in that mode until another Icon is selected or the **'Esc'** key is pressed to quit a particular mode. In this situation the program defaults back to the Pan mode.

Please note that in all modes except zoom, right clicking the mouse button will center the screen on the current cursor position (Panning).

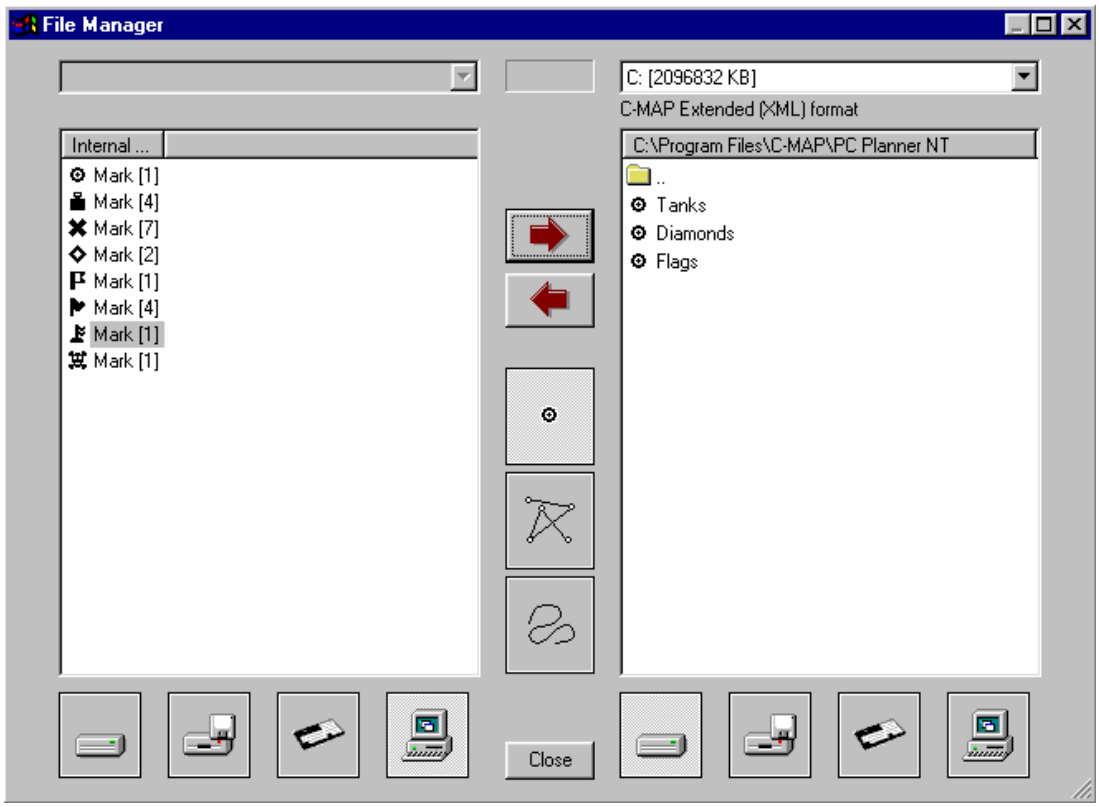
The Latitude/Longitude of the cursor position and the display scale will automatically be displayed at the bottom of the screen. The Scale value (in Nautical Miles) indicates the horizontal distance across the screen. To disable this function, select **View** on the menu bar. The **Status Bar** option will be ticked when the Latitude/Longitude and scale are displayed. Click on **Status Bar** to turn this function off.

5.1. GENERAL

5.1.1. The File Manager

User points and routes that are created will be stored in the memory of the PC-PLANNER NT+, and will not be lost on exiting the program. However, you may wish to save these routes and user points either to the hard drive of your PC or to a User Cartridge or User Floppy Disk. The **File Manager** allows you to do this.

To open the File Manager, click on the **File Manager** Icon in the toolbar or select the **File Manager** option in the **File** menu. The window shown below will now be displayed.



The ***File Manager*** dialog box has two main windows, which show the User point, Route and Track files. Under each window there are 4 icons, which allow the selection of locations where these files can be stored or copied to.

Selects the PC HARD DISK.

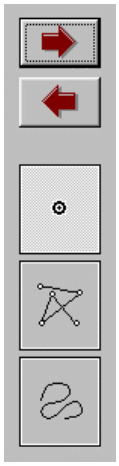
Selects the floppy disk driver. The floppy must be in C-MAP format.

Selects the USER C-CARD.

Selects the PC-PLANNER NT+ memory.

On the figure above on the left window the PC-PLANNER NT+ memory has been selected and in the right one the PC HARD DISK.

There are also five icons in the center between the two main windows, as shown below:



——— Copies the selected files from the left window to the right window

——— Copies the selected files from the right window to the left window

——— This icon shows the Mark and Event files by icon

——— This icon shows the Routes files

——— This icon shows the Tracks files

NOTE: It is not possible to copy files directly from the FLOPPY DISK to the USER C-CARD or from the HARD DISK directly to the USER C-CARD by selecting the two media in the two windows. To do that it is necessary to copy the files into the PC PLANNER MEMORY and then copy them to the other media. Doing this does not guarantee that the icon shape will remain unchanged since the icon is dependent on the system that wrote the files. The icon may or may not be available on the PC-PLANNER NT+.

5.1.1.1. DATA IN PC MEMORY

The User point data available on the PC memory is shown as a “set” of data. They are not files but groups of data of the same type.

It is possible to select one or more files (using SHIFT or CONTROL WINDOWS method) so that all the user points will be saved into one file only.

5.1.1.2. FILES ON HARD DISK

The user point data can be saved on the PC HARD DISK in two different formats: C-MAP TXT or C-MAP Extended (XML) (Extensible Markup Language).
The C-MAP TXT format is a very simple TXT format used in certain applications. It maintains the icon type information only if the user point icon is the one with blue background on the icon tool bar.

The XML format is complete and contains all the information of the points. It can be seen and edited using Internet Explorer or one compatible application.
To select between these two formats, select **View -> Settings…**
It is possible to change the HARD DISK directory using the menu located at the top of the window.

5.1.1.3. FILES ON USER C-CARD or FLOPPY DISK or

The User point data can be saved onto a FLOPPY DISK or USER C-CARD so that chart plotter systems based on C-MAP NT technology can read them.

By right clicking on the file name in the File Manager window, routes and user points on the user C-CARD or floppy disk can be re-named or deleted, and the USER C-CARD can be formatted.

NOTE: Transferring user points from/to the WIDE USER C-CARD could takes several seconds depending on the number of points. The progress bar on the top of the file manager window will give you the feedback on the data transfer.

NOTE: Every chart plotter based on C-MAP NT/NT+ technology is using a private list of user point icons. So, it is not always possible to maintain the user point icon type while exchanging the files with ***PC-PLANNER NT+****.*

5.1.1.4. Example of copying a route

To save a route that is stored in the PC-PLANNER NT+ memory onto a User card, click on the PC-PLANNER NT+ memory icon at the bottom of the left hand window. Then click on the routes icon in the center of the two windows. Any routes that are stored in the PC-PLANNER NT+ memory will now be displayed.

Now select User C-CARD by clicking on the User C-CARD icon below the right hand window.

To transfer the *route* file from the PC-PLANNER NT+ memory to the User C-CARD, click on the arrow key to transfer from left to right. You will be prompted to input a file name to save the route file on your User C-CARD. You should now be able to see that the route file is stored on the User C-CARD in the right side of the window

The File manager is a very simple, but powerful, tool for copying the User files between the PC-PLANNER NT+ program and the various storage devices available. With some practice you can safely manage all of your user data with this feature

5.1.2. Print

It is possible to print the chart that is displayed by clicking on the print icon in the toolbar. A dialog box will appear on screen. Click on OK to print.

Alternatively click on **File** in the Menu Bar and choose **Print**. To preview the page before printing, select **Print Preview.**

There are an increasing number of optional devices that use the PC printer port to connect to the PC, such as Scanners, digital cameras, Zip drives, etc. and also the complexity of some printers that have special Printer Monitor software which disable/lock the printer port. For this reason, it is not uncommon for the PC-PLANNER NT+ cartridge reader to conflict with other devices using the printer port.

Should you encounter any problems with the PC not being able to communicate with the PC-PLANNER NT+ cartridge reader or the PC not being able to print whilst the cartridge reader is connected then the following steps should be taken.

- Disconnect, disable or uninstall any other software or devices that use the printer port.
- Install a generic Microsoft Windows driver for the printer you have, rather than the more sophisticated driver supplied with the printer, which may try to take full control of the printer port.
- Install a second printer port card in your PC which is dedicated solely to the PC-PLANNER NT+ – these printer port cards are readily available from most PC retailers and cost less than $20 USD.

5.1.3. Data Receiving

By selecting this button, PC-PLANNER NT+ enters into an "Active Waiting" state so that it will be ready to accept any compatible user point data from the PC serial port. The data format must be in NMEA0183 format using the RTE and WPL messages. Only one route can be received at a time.

5.2. CHART FUNCTIONS

5.2.1. Pan

To move around the charts (panning), left click the **Pan** icon. The cursor should now change to a hand shape and whenever you left click on the chart, the screen will redraw to display the cursors current position as the center point of the screen. By repeatedly moving the cursor to one side of the screen and left clicking, it is possible to quickly move around the chart in a particular direction.

Tip
This can also be accomplished by using the arrow keys on your keyboard.

5.2.2. Zoom

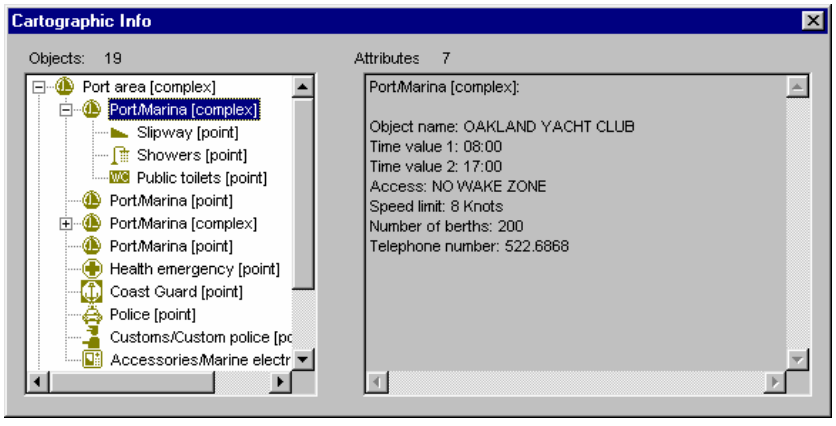
To zoom into a more detailed chart, select the **Zoom** icon on the toolbar. By left clicking on the charts, more detailed charts can be selected, to zoom out again, right-click the mouse button.

Tip
This can also be accomplished pressing the "I" (for zoom in) and "O" (for zoom out) keys on your keyboard.

5.2.3. Info

C-MAP charts contain a lot of additional information that is not displayed on the screen, such as warning notes, Port and Tide information, and names of navigational aids. This is the beauty of vector technology. The chart information tool provides easy access to all of this data and is simple to use.

Select the **Info** icon on the toolbar at the top of the screen. Left click on the point or the area you require information on, and a dialog box showing cartographic information will be displayed on the screen as shown below.



This works in a similar way to Windows Explorer. By highlighting one of the icons displayed on the left-hand side of the dialog box, the chart information for the icon will be displayed on the right of the dialog box. For example, highlighting the depth area icon will display the depth range for the area you have clicked on.

Tip

This can also be accomplished by pressing and holding the control (Ctrl) key on the keyboard and left clicking on the chart object you wish to see information on regardless the function active at that time.

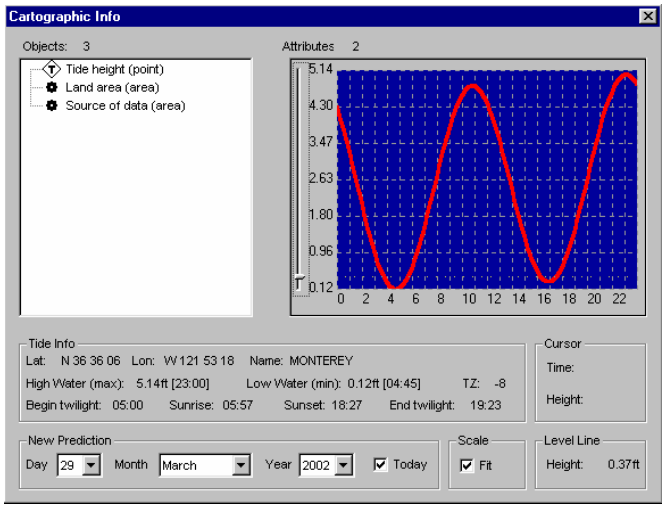
5.2.3.1. Port Info

Many C-CARDs now contain Port Info™. This is a database containing information on facilities (restroom, freshwater hookup, boat hoists, etc.) available at marinas as well as important information for the Port Area, such as telephone numbers of the Harbor Master and Coast Guard. By selecting the marina symbol displayed on the chart, a dialog box will be displayed allowing you to query the available information.

If a plus sign is shown next to the icon, clicking on the plus sign will display a further list of objects containing information. See above.

5.2.3.2. Tidal Info

Similarly, all C-CARDs now contain Tide Info™ and this is shown on the chart by a diamond containing the letter 'T'. As on most chart plotters, it is possible to display the tidal graph. To do this, select the **Info** icon and click on the Tide Info™ symbol shown on the chart.



5.2.3.3. Aeronautical Info

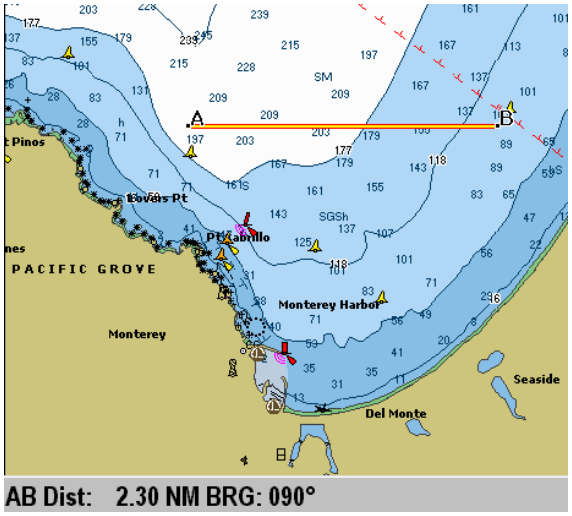
C-MAP NT Avionic C-CARDs contain a lot of information related to navigation (Airports, Attention areas, landing routes, frequencies, restricted areas, F.I.R., U.I.R. e M.O.R.A. etc). By selecting the symbol or area displayed on the chart, a dialog box will be displayed allowing you to query the available information.

5.2.4. A-B

The A-B function allows measurements of the distance and bearing between two points, and can be activated by selecting the **A-B** icon on the toolbar.

Once the A-B function has been selected, the cursor will change to an "A" symbol. Left click on the first position on the chart and the "A" will be placed at that position. Move the cursor, which will now have changed to a B

symbol, to the second position and left click again. A red and yellow line will connect these two points. The distance (Dist) and bearing (BRG) between the two points will be displayed on the bottom left hand corner of the screen. This is shown below:

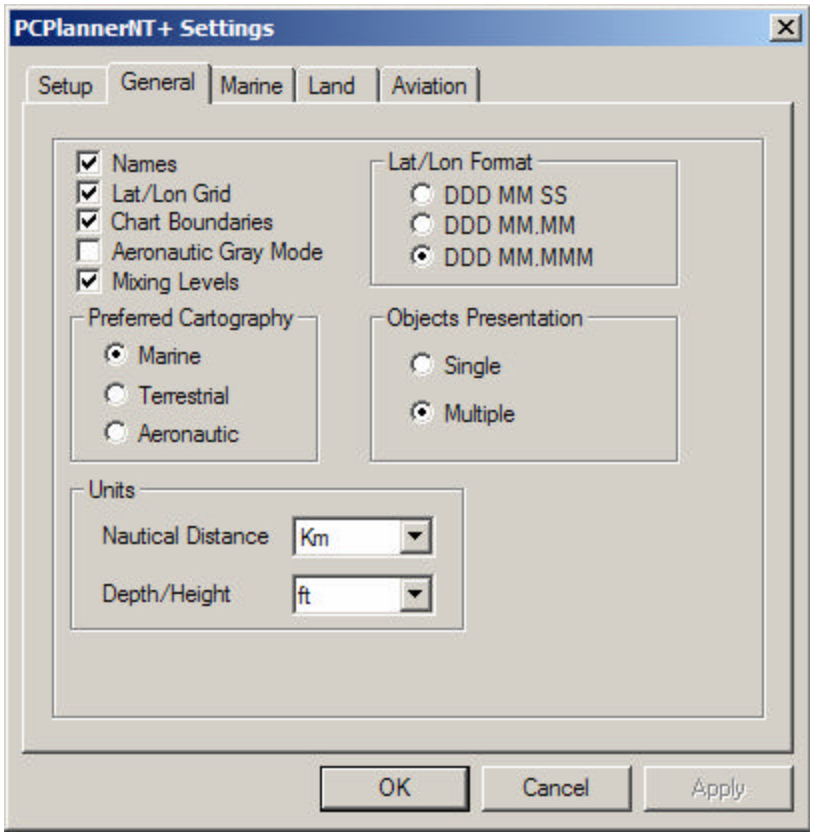


It is only possible to have one A-B line shown on the screen at any one time. When a new line is created, the original will disappear. If you do not wish to have an A-B line displayed anymore, simply click once to create the A position and then press the 'Esc' key on your PC keyboard or select the "delete" function and click on the "A" or "B" points.

The Range value is displayed in following the Units setting, and the Bearing value is displayed in True North.

5.2.5. Chart Settings

The display of Chart information can be customized according to the type of cartridge inserted in the plotter and some chart features can be enabled or disabled. To customize the chart display, select the **View** menu at the top of the screen and then click on **Settings**. The dialog box will be shown as below.



There are five settings menus, which can be selected by left clicking on the tabs Setup, General, Marine, Land, Aviation or Units. By left clicking on one of the settings, you will be able to setup the PC-PLANNER NT+.

It should be noted that this program has been designed to work with C-MAP NT and C-MAP NT+ Marine, Land and Aviation cartridges but that the particular cartridges you have may not include all of these objects.

These settings are always remembered whenever the program is exited and started up again.

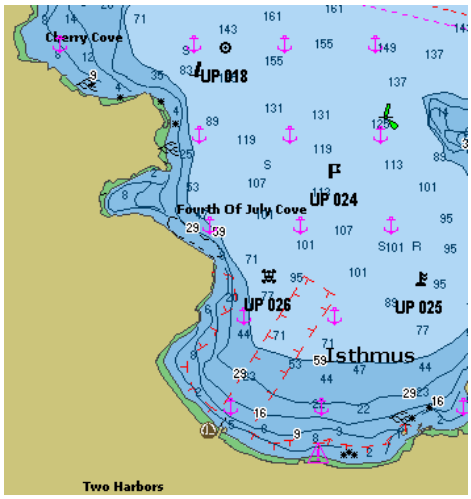
5.3. USER POINTS HANDLING

A ***User point*** is a point that can be stored at any position on the chart. On chart plotters these user points are often referred to as waypoints, marks or events.

Using this feature any type of important position (fishing spots, dive locations, uncharted hazards, etc.) can be stored. There are a number of different symbols available for this purpose and these are displayed on the left-hand side of the screen.

5.3.1. Add UP

User points can be positioned on the chart by selecting the **Add User point** icon on the toolbar and then selecting the appropriate symbol, from the list down the left hand side of the screen. To insert a User point, simply place the cursor on the chart at the required position and left-click. The User point will now be stored and displayed on the chart with the relevant symbol and an automatic name of UP XXX, where XXX is a running total of User points stored in your PC-PLANNER NT+ NT, starting at 000.



5.3.2. Del UP

User points can be deleted by selecting the **Del User point** icon on the toolbar, and left clicking on the User point to be deleted. It is also possible to delete User points from the **User Point List.**

5.3.3. Move UP

Alternatively, it is possible to move User points to a new position. Select the **Move User point** icon on the toolbar and click and drag the User point to the new position. Then release the left mouse button and the User point will now be placed in its new position.

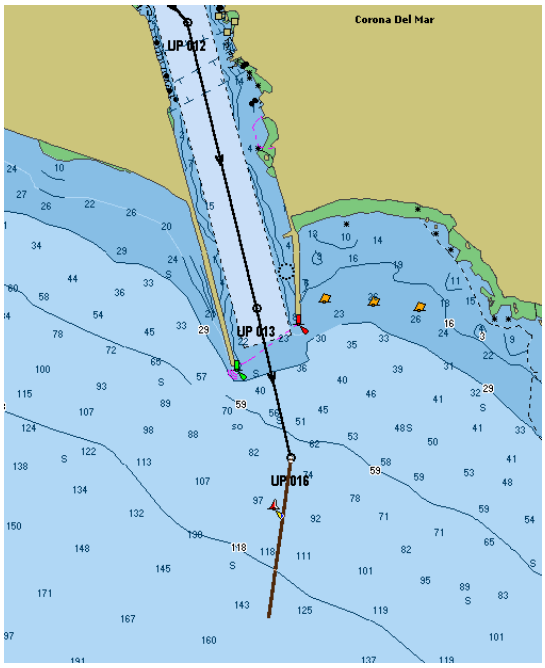
5.4. MANAGING ROUTES

A route is a collection of linked User points. It is possible to include any of the existing User points in a route, or create new User points as you create a route. It should be noted that any User points linked to a route will be deleted when the Route is deleted. It should also be noted that it is not possible to delete User points that are used in an existing route. In the User Point List window User Points that are part of a route are displayed with a lock symbol next to them and cannot be deleted until the route they are part of is deleted.

5.4.1. Creating a new Route

The **New Route** icon on the toolbar allows you to create a new route. Left click on the **New Route** icon and then left click on the first point of the route you wish to enter. The first waypoint (user point) in the route will now appear.

As you move the cursor, a line originating from the first waypoint will be displayed. Move the cursor to the required position of the next waypoint and left click to position the next waypoint. A black line with an arrow, indicating the direction of the route, will then appear connecting the first and second waypoints – see below.



Further waypoints can be created, by repeating this procedure, or left clicking on them can also include existing User points.

Tip

To use more than one time the same UP into the same route, press “SHIFT” while clicking on the point.

Note that the PC-PLANNER NT+ software does not have the facility to reverse the direction of a route.

When you have finished entering your route, either press the ‘Esc’ key on the keyboard or click on one of the other Mode Icons. As soon as you do either of these operations, a Route Name window will appear, and you will be prompted to give the route a name before it is saved. You can change the default name ‘Route XXXX’ and then click on the Create button to save the route or the Cancel button to exit and delete the route.

5.4.2. Editing a Route

Existing routes can be edited by selecting the **Edit Route** mode on the toolbar. In this mode you can add or insert additional waypoints by left clicking on part of the route displayed on the screen. Clicking and dragging on the black line between waypoints will cause a new waypoint to be inserted. Dragging the line to a new position and releasing the left hand mouse button will insert the waypoint and the route will be modified. Left clicking anywhere else on the chart will cause an additional new waypoint to be added to the end of the route.

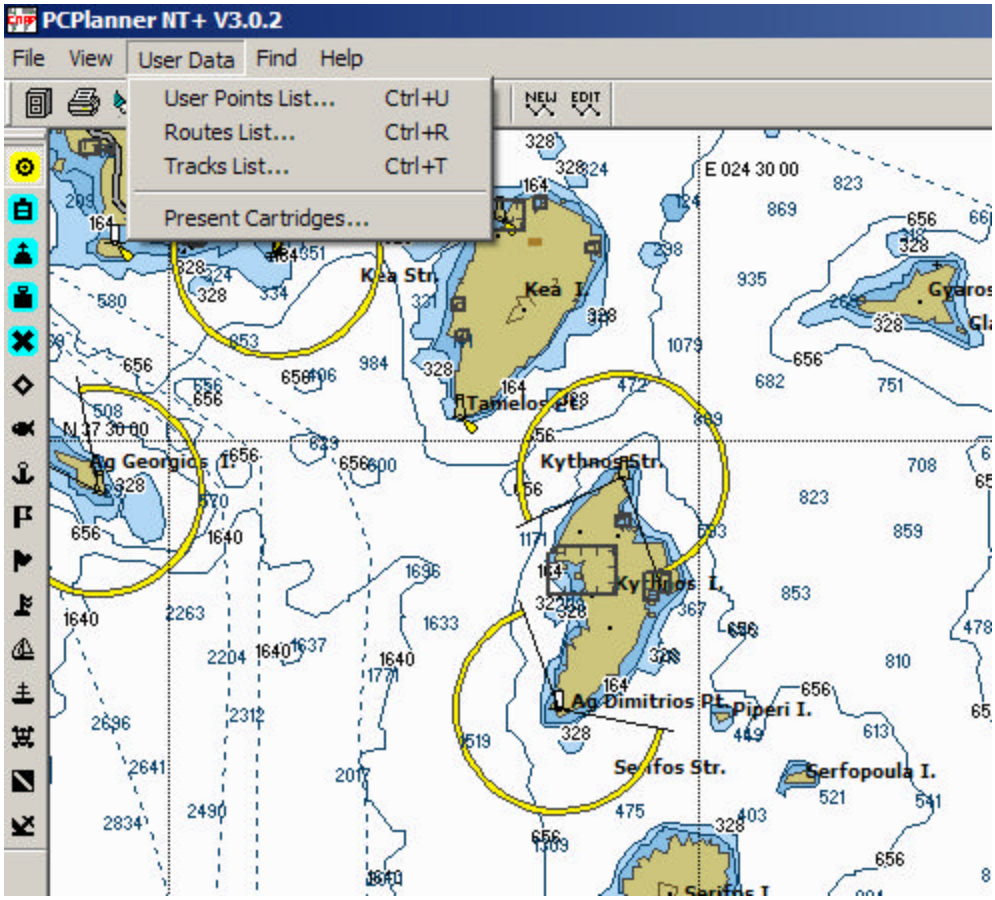
The waypoints that you have entered for your route can be moved in the same way in which other User points can be moved. Click on the **Move User Point** icon on the toolbar, click on the waypoint and drag it to the new position.

In the same way, clicking on the Delete User point icon in the toolbar, and then left clicking on the waypoint can delete a User point in a route. On the first click, the black connecting line will be deleted, and on the second click, the User point will be deleted.

To exit the **Edit Route** mode, either press the **‘Esc’** key on your keyboard or select another mode from the toolbar. All changes to this route will be saved in memory.

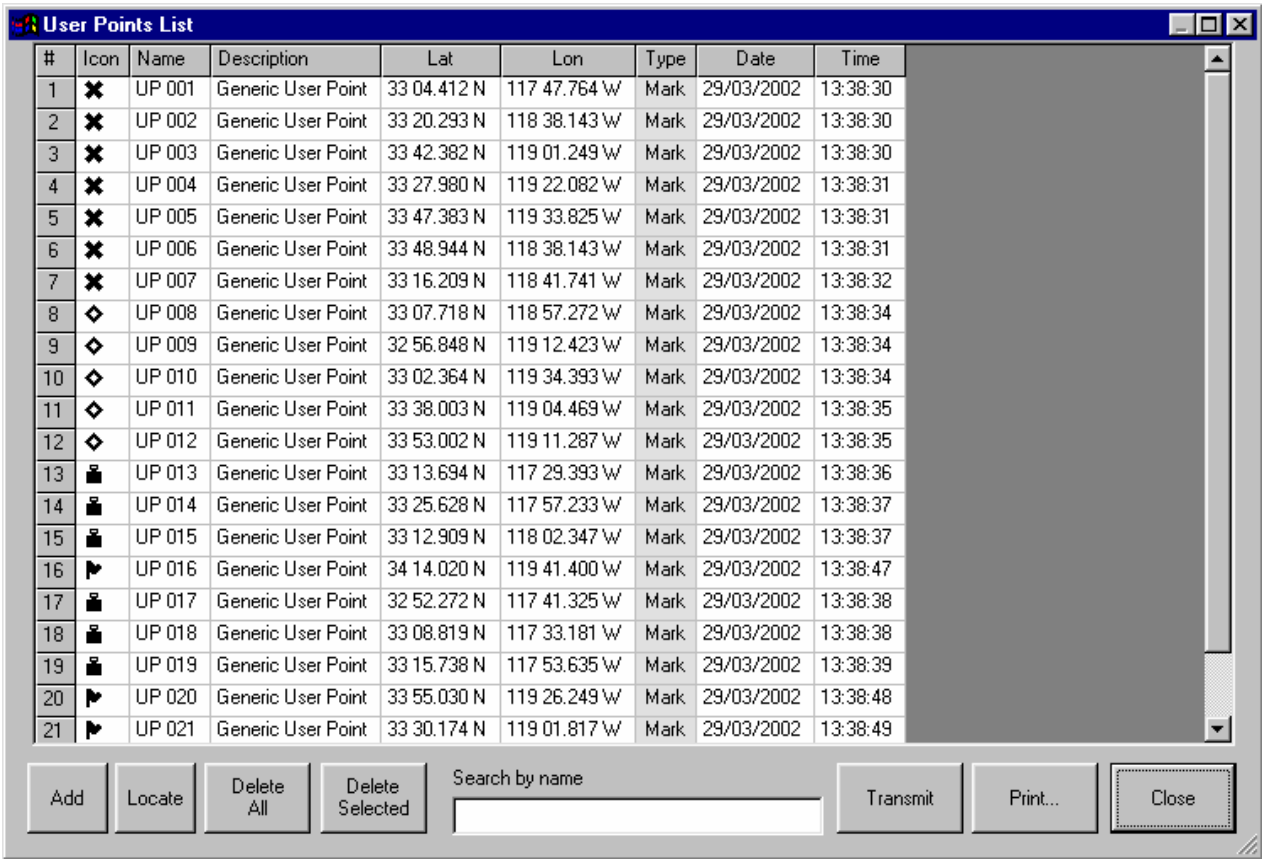
6. MENU BAR

6.1. USER DATA: Editing and tables



6.1.1. User Points List

Select the **User Data** menu at the top of the screen, and then select the **User Points List** option. A dialog box listing all User points that have been created will be displayed on the screen:



#	Icon	Name	Description	Lat	Lon	Type	Date	Time
1		UP 001	Generic User Point	33 04.412 N	117 47.764 W	Mark	29/03/2002	13:38:30
2		UP 002	Generic User Point	33 20.293 N	118 38.143 W	Mark	29/03/2002	13:38:30
3		UP 003	Generic User Point	33 42.382 N	119 01.249 W	Mark	29/03/2002	13:38:30
4		UP 004	Generic User Point	33 27.980 N	119 22.082 W	Mark	29/03/2002	13:38:31
5		UP 005	Generic User Point	33 47.383 N	119 33.825 W	Mark	29/03/2002	13:38:31
6		UP 006	Generic User Point	33 48.944 N	118 38.143 W	Mark	29/03/2002	13:38:31
7		UP 007	Generic User Point	33 16.209 N	118 41.741 W	Mark	29/03/2002	13:38:32
8		UP 008	Generic User Point	33 07.718 N	118 57.272 W	Mark	29/03/2002	13:38:34
9		UP 009	Generic User Point	32 56.848 N	119 12.423 W	Mark	29/03/2002	13:38:34
10		UP 010	Generic User Point	33 02.364 N	119 34.393 W	Mark	29/03/2002	13:38:34
11		UP 011	Generic User Point	33 38.003 N	119 04.469 W	Mark	29/03/2002	13:38:35
12		UP 012	Generic User Point	33 53.002 N	119 11.287 W	Mark	29/03/2002	13:38:35
13		UP 013	Generic User Point	33 13.694 N	117 29.393 W	Mark	29/03/2002	13:38:36
14		UP 014	Generic User Point	33 25.628 N	117 57.233 W	Mark	29/03/2002	13:38:37
15		UP 015	Generic User Point	33 12.909 N	118 02.347 W	Mark	29/03/2002	13:38:37
16		UP 016	Generic User Point	34 14.020 N	119 41.400 W	Mark	29/03/2002	13:38:47
17		UP 017	Generic User Point	32 52.272 N	117 41.325 W	Mark	29/03/2002	13:38:38
18		UP 018	Generic User Point	33 08.819 N	117 33.181 W	Mark	29/03/2002	13:38:38
19		UP 019	Generic User Point	33 15.738 N	117 53.635 W	Mark	29/03/2002	13:38:39
20		UP 020	Generic User Point	33 55.030 N	119 26.249 W	Mark	29/03/2002	13:38:48
21		UP 021	Generic User Point	33 30.174 N	119 01.817 W	Mark	29/03/2002	13:38:49

The functions available that can be applied to any of the User points above by simply highlighting any of the fields for the desired User point are:

Add
Inserts a new User Point opening a pop-up window for information input (lat/long position, name, type, etc)

Locate
Closes the pop-up window and brings you to the User point on the map screen.

Delete All
All the User points will be deleted.

Delete Selected
Deletes all User points selected from the list. It is possible to delete multiple User points using the Ctrl or Shift-click options.

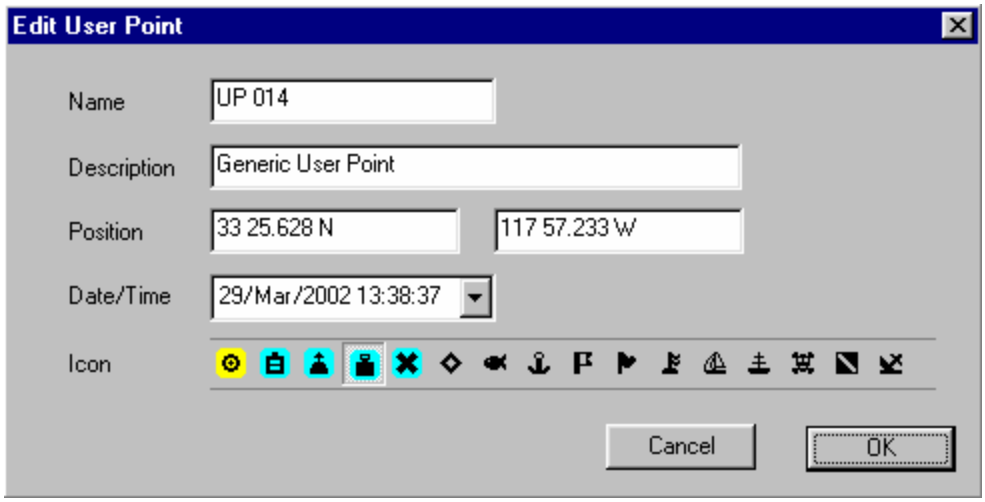
Search by name
Inserting the User Point name, it will be highlighted on the list above

Transmit
The Transmit function outputs the details of all existing User points in NMEA0183 format using the WPL message to the PC's serial port selected in the General Settings menu. Some GPS and Chart Plotting units will allow for this type of waypoint transfer, but you should check with the manufacturer of your GPS/Chart Plotter to see if this is possible and purchase a suitable PC interface cable from them.

Print
Allow printing the list of user points.

Close
To close the window

Tip
Editing of User points can either be done from the User points list above, by just editing the data in each field, or on the map screen, by holding down the Control key (Ctrl) and left-clicking on the User point. This will bring up the window below:



6.1.1.1. Saving User Points

Once entered, these points will be saved in the memory. On exiting the PC-PLANNER NT+ the User points will remain stored in the memory.

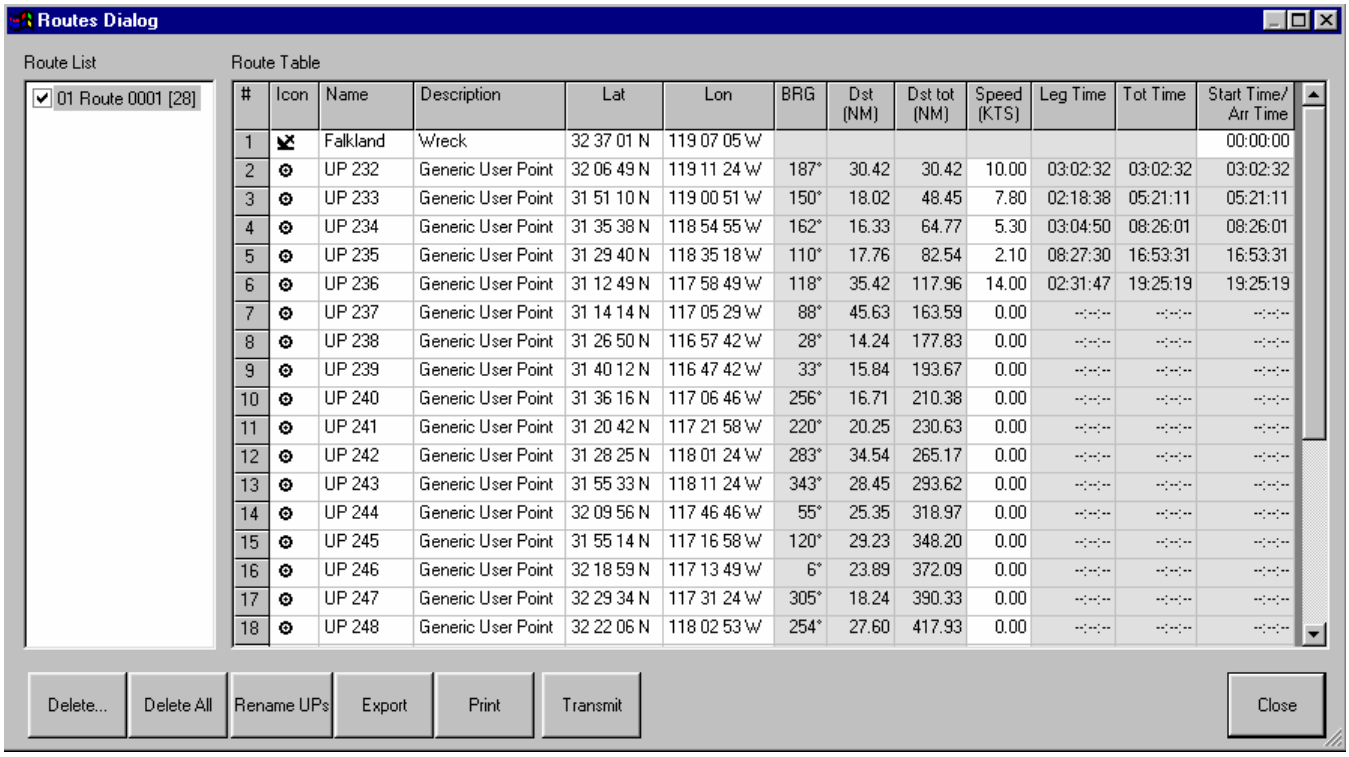
However, you may wish to save them into a file on the hard drive of your PC. To do this you will need to use **File Manager**.

6.1.1.2. User point icons

The vertical icon tool bar on the left of the screen (here you see it horizontal), allows you to select which User Point icon to use for marks and waypoints. The first one, with the yellow background, is the “general purpose” Icon and is used when loading marks from a chart plotter that does not support multiple User Point Icons or when uploaded from NMEA devices. The next four (with blue background) are the Icons supported by most chart plotters and which should be maintained when transferring files. The others can be used on PC-PLANNER NT+ but it is not guaranteed that the icon will be maintained while transferring the file to chart plotters.

6.1.2. Route List

Select the **User Data** menu at the top of the screen, and then select the **Routes List** option. A dialog box listing all Routes that have been created will be displayed on the screen:



#	Icon	Name	Description	Lat	Lon	BRG	Dst (NM)	Dst tot (NM)	Speed (KTS)	Leg Time	Tot Time	Start Time/ Arr Time
1		Falkland	Wreck	32 37 01 N	119 07 05 W							00:00:00
2		UP 232	Generic User Point	32 06 49 N	119 11 24 W	187°	30.42	30.42	10.00	03:02:32	03:02:32	03:02:32
3		UP 233	Generic User Point	31 51 10 N	119 00 51 W	150°	18.02	48.45	7.80	02:18:38	05:21:11	05:21:11
4		UP 234	Generic User Point	31 35 38 N	118 54 55 W	162°	16.33	64.77	5.30	03:04:50	08:26:01	08:26:01
5		UP 235	Generic User Point	31 29 40 N	118 35 18 W	110°	17.76	82.54	2.10	08:27:30	16:53:31	16:53:31
6		UP 236	Generic User Point	31 12 49 N	117 58 49 W	118°	35.42	117.96	14.00	02:31:47	19:25:19	19:25:19
7		UP 237	Generic User Point	31 14 14 N	117 05 29 W	88°	45.63	163.59	0.00	--:--:--	--:--:--	--:--:--
8		UP 238	Generic User Point	31 26 50 N	116 57 42 W	28°	14.24	177.83	0.00	--:--:--	--:--:--	--:--:--
9		UP 239	Generic User Point	31 40 12 N	116 47 42 W	33°	15.84	193.67	0.00	--:--:--	--:--:--	--:--:--
10		UP 240	Generic User Point	31 36 16 N	117 06 46 W	256°	16.71	210.38	0.00	--:--:--	--:--:--	--:--:--
11		UP 241	Generic User Point	31 20 42 N	117 21 58 W	220°	20.25	230.63	0.00	--:--:--	--:--:--	--:--:--
12		UP 242	Generic User Point	31 28 25 N	118 01 24 W	283°	34.54	265.17	0.00	--:--:--	--:--:--	--:--:--
13		UP 243	Generic User Point	31 55 33 N	118 11 24 W	343°	28.45	293.62	0.00	--:--:--	--:--:--	--:--:--
14		UP 244	Generic User Point	32 09 56 N	117 46 46 W	55°	25.35	318.97	0.00	--:--:--	--:--:--	--:--:--
15		UP 245	Generic User Point	31 55 14 N	117 16 58 W	120°	29.23	348.20	0.00	--:--:--	--:--:--	--:--:--
16		UP 246	Generic User Point	32 18 59 N	117 13 49 W	6°	23.89	372.09	0.00	--:--:--	--:--:--	--:--:--
17		UP 247	Generic User Point	32 29 34 N	117 31 24 W	305°	18.24	390.33	0.00	--:--:--	--:--:--	--:--:--
18		UP 248	Generic User Point	32 22 06 N	118 02 53 W	254°	27.60	417.93	0.00	--:--:--	--:--:--	--:--:--

The **Icon, Name, Description, Lat, Lon** columns all pertain to each waypoint in the Route. The **BRG** column refers to the bearing from the previous waypoint to the next. The **Dst** and **Dst tot** columns pertain to the distance of each leg, and the total distance of the route. The Speed column allows you to input the desired speed, in knots, for each leg of the route. The **Leg Time, Tot Time** and **Start Time/Arr Time** are all computed automatically once the speed values are set for each route. For the first waypoint, you can set a reference **Start Time** in the last column.

To select which Route to view on the screen, simply check or uncheck the box next to the Route name on the left hand side of the window. This will leave the waypoints on the screen, but will turn off the black line connecting all of the waypoints.

The following commands are available:

Delete...
To delete the selected route

Delete All
To delete all routes

Rename Ups
To rename the User points into the selected route as "**R r_n"** where "r" is the route number and "n" is the waypoint number.

Export
To export the table content in a CSV (Comma Separated Values) file format

Print
To print the list of routes

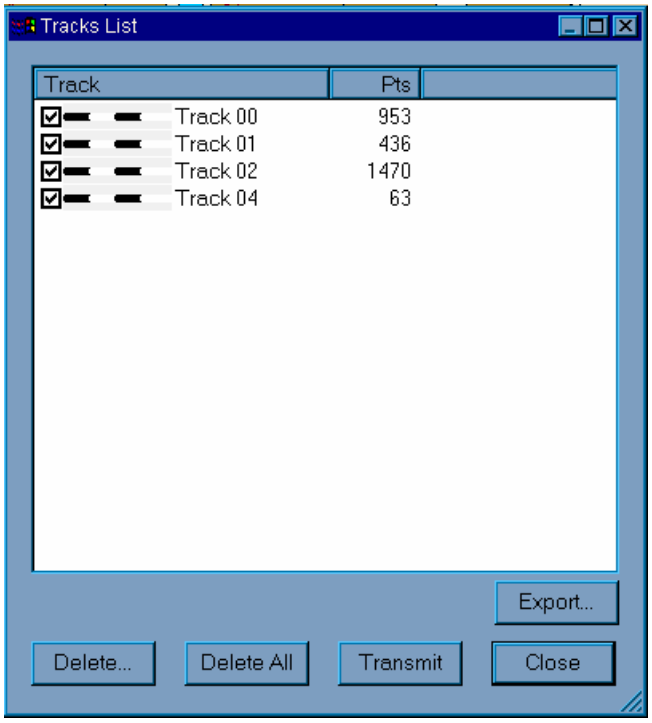
Transmit

The Transmit function outputs the details of the selected route in NMEA0183 format using the RTE and WPL message to the PC's serial port selected in the General Settings menu. Some GPS and Chart Plotting units will allow for this type of waypoint transfer, but you should check with the manufacturer of your GPS/Chart Plotter to see if this is possible and purchase a suitable PC interface cable from them

Close
To close the window

6.1.3. Track List

Select the **User Data** menu at the top of the screen, and then select the **Tracks List** option. A dialog box listing all Tracks loaded will be displayed on the screen:



The functions available are:

Delete...
To delete the selected track

Delete All
To delete all tracks

Export
To export the track in "CSV" format

Transmit
The Transmit function outputs the details of the selected route in NMEA0183 format using the **PCMPT** message (C-MAP Proprietary message) to the PC's serial port selected in the General Settings menu.

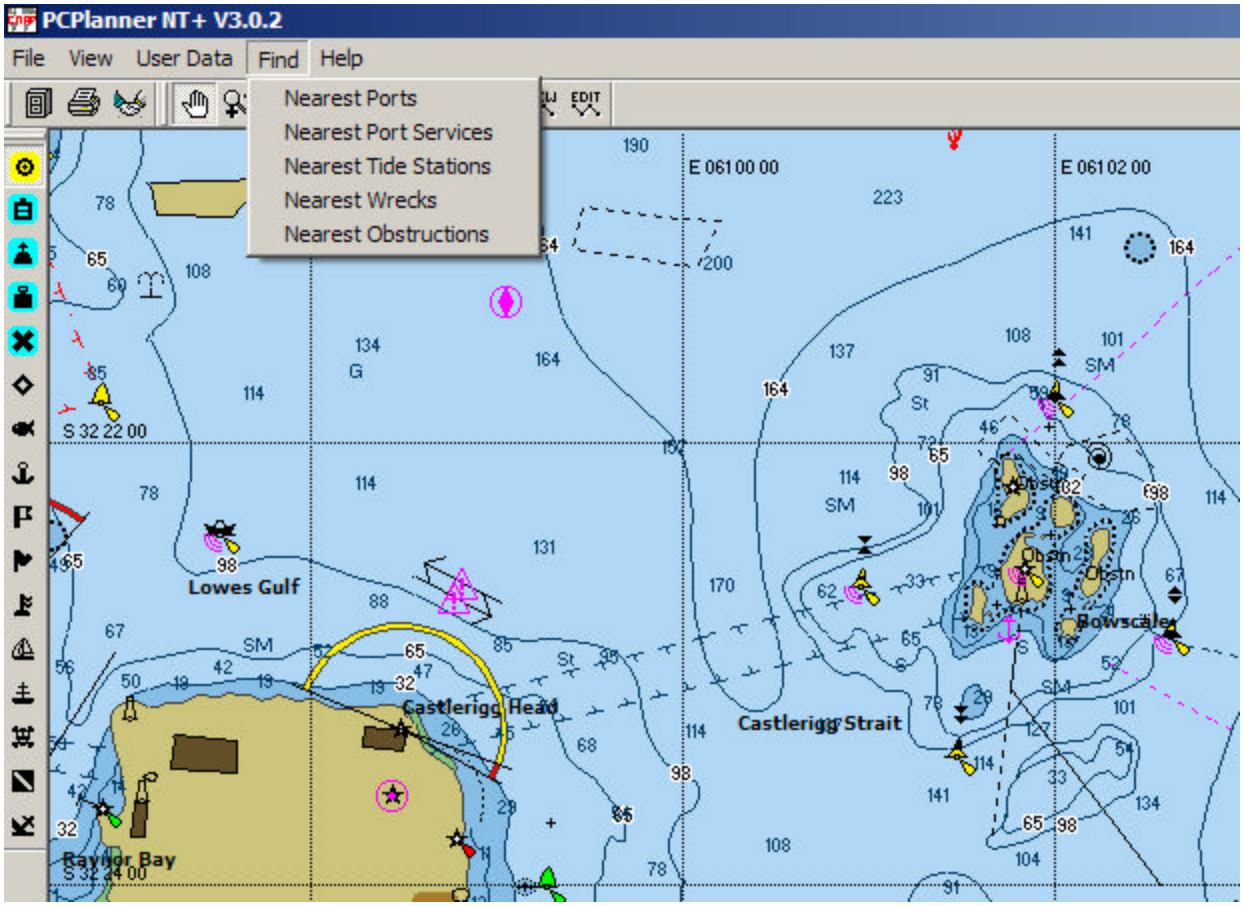
Close
To close the window

The TICK at the beginning of the line selects the tracks to be shown on the screen.

It should also be noted that the PC-PLANNER NT+ can display Track files produced on a compatible C-MAP NT based Chart Plotter. Track files contain information about where the boat has been and are displayed on the PC-PLANNER NT+ software as a continuous line. They cannot be edited or created using the PC-PLANNER NT+ program

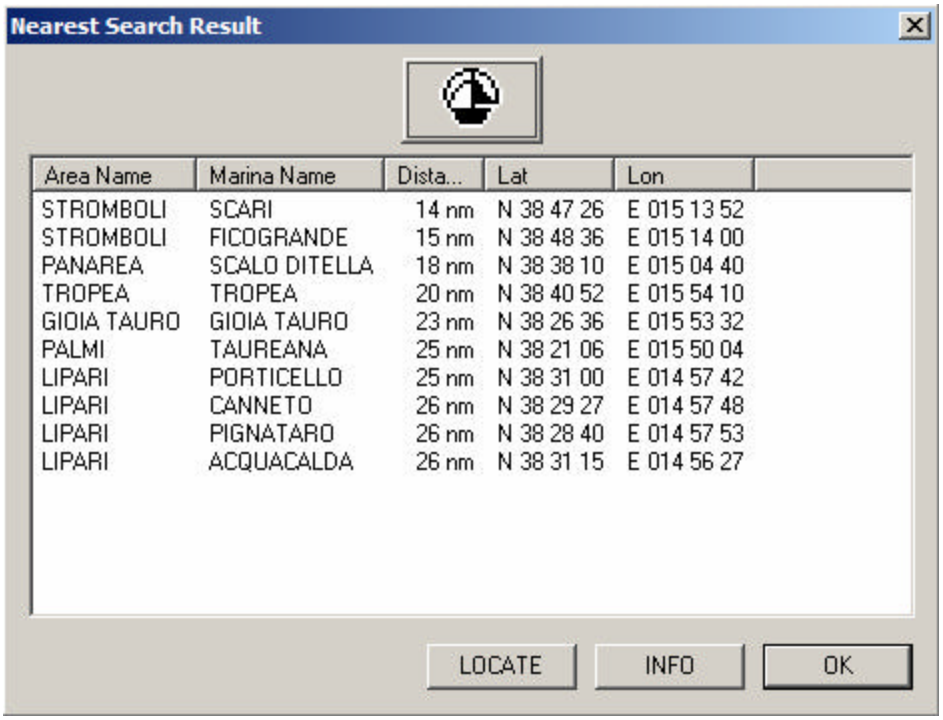
6.2. FIND FUNCTIONS

PC-PLANNER NT+ now has the capability to find the following nearest 10 objects from the center of the screen:



6.2.1. Nearest Ports

Selecting Nearest Ports, the following pop-up window will be opened showing the nearest 10 ports:


Nearest Search Result
Area Name
Marina Name
Dista...
Lat
Lon
STROMBOLI SCARI 14 nm N 38 47 26 E 015 13 52
STROMBOLI FICOGRANDE 15 nm N 38 48 36 E 015 14 00
PANAREA SCALO DITELLA 18 nm N 38 38 10 E 015 04 40
TROPEA TROPEA 20 nm N 38 40 52 E 015 54 10
GIOIA TAURO GIOIA TAURO 23 nm N 38 26 36 E 015 53 32
PALMI TAUREANA 25 nm N 38 21 06 E 015 50 04
LIPARI PORTICELLO 25 nm N 38 31 00 E 014 57 42
LIPARI CANNETO 26 nm N 38 29 27 E 014 57 48
LIPARI PIGNATARO 26 nm N 38 28 40 E 014 57 53
LIPARI ACQUACALDA 26 nm N 38 31 15 E 014 56 27
LOCATE
INFO
OK

The functions available are:

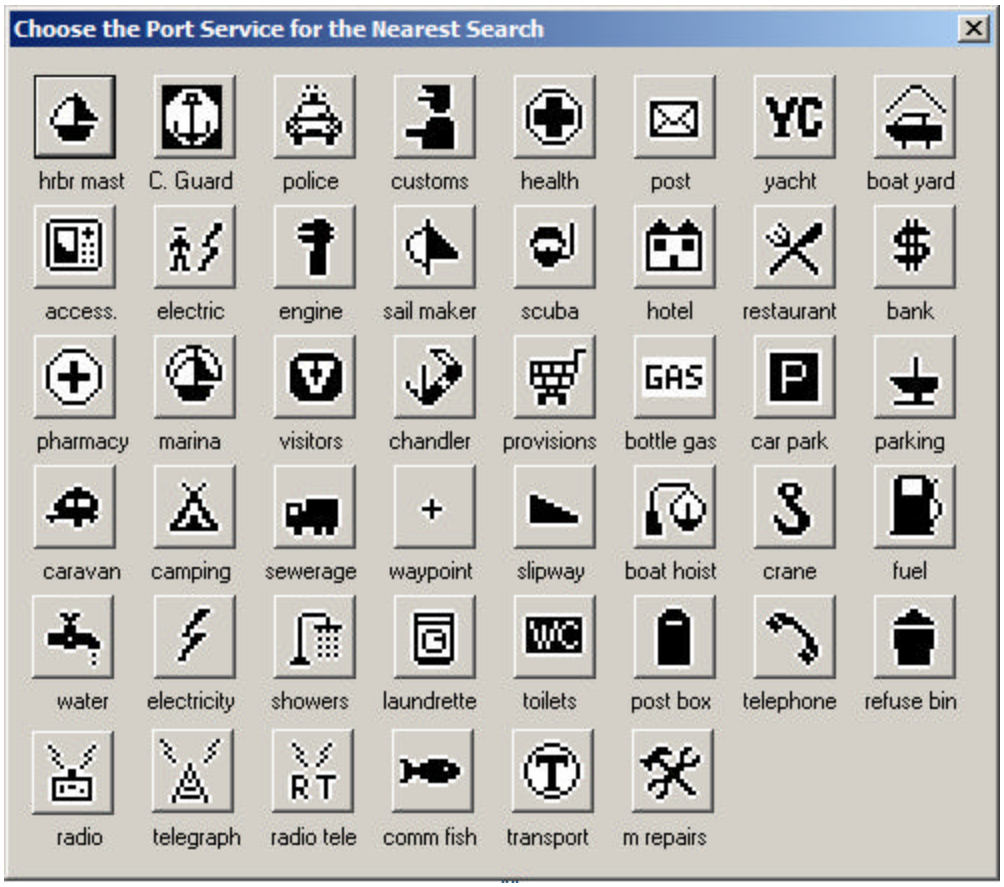
Locate...
To locate the port selected. The port will be placed in the middle of the screen with the cursor over it.

Info...
To open the pop-up window with the info on it.

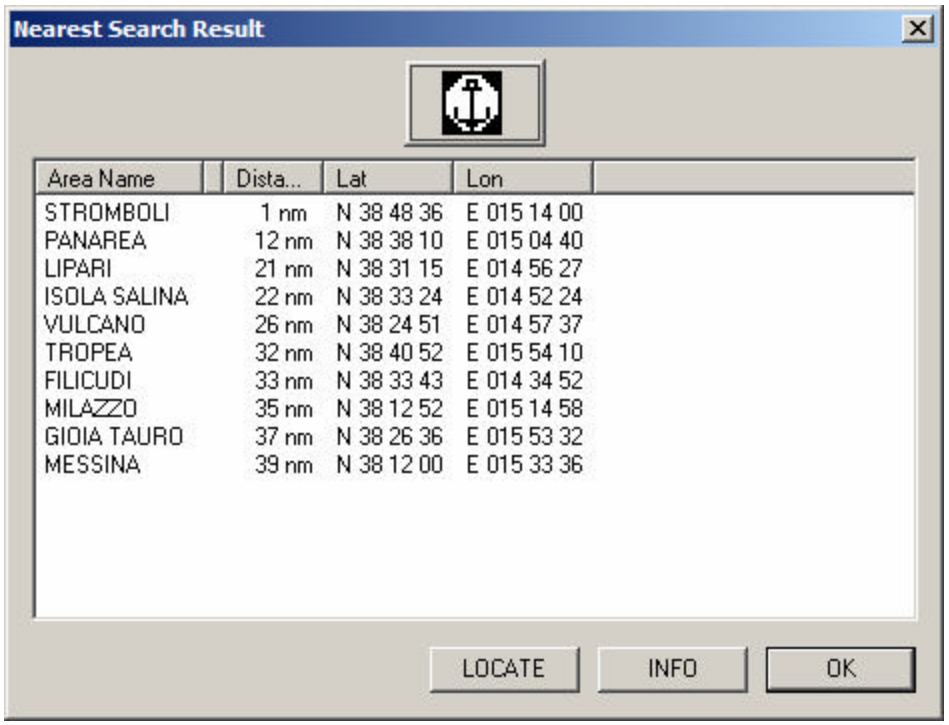
OK
To close the window.

6.2.2. Nearest Port Services

Selecting Nearest Ports Services, the following pop-up window will be opened:



Clicking on the Port Service you are interested on, the 10 nearest Port Services will be displayed on the Screen. For example, selecting Coast Guard, the window will be:


Nearest Search Result
Area Name
Dista...
Lat
Lon
STROMBOLI 1 nm N 38 48 36 E 015 14 00
PANAREA 12 nm N 38 38 10 E 015 04 40
LIPARI 21 nm N 38 31 15 E 014 56 27
ISOLA SALINA 22 nm N 38 33 24 E 014 52 24
VULCANO 26 nm N 38 24 51 E 014 57 37
TROPEA 32 nm N 38 40 52 E 015 54 10
FILICUDI 33 nm N 38 33 43 E 014 34 52
MILAZZO 35 nm N 38 12 52 E 015 14 58
GIOIA TAURO 37 nm N 38 26 36 E 015 53 32
MESSINA 39 nm N 38 12 00 E 015 33 36
LOCATE
INFO
OK

The functions available are:

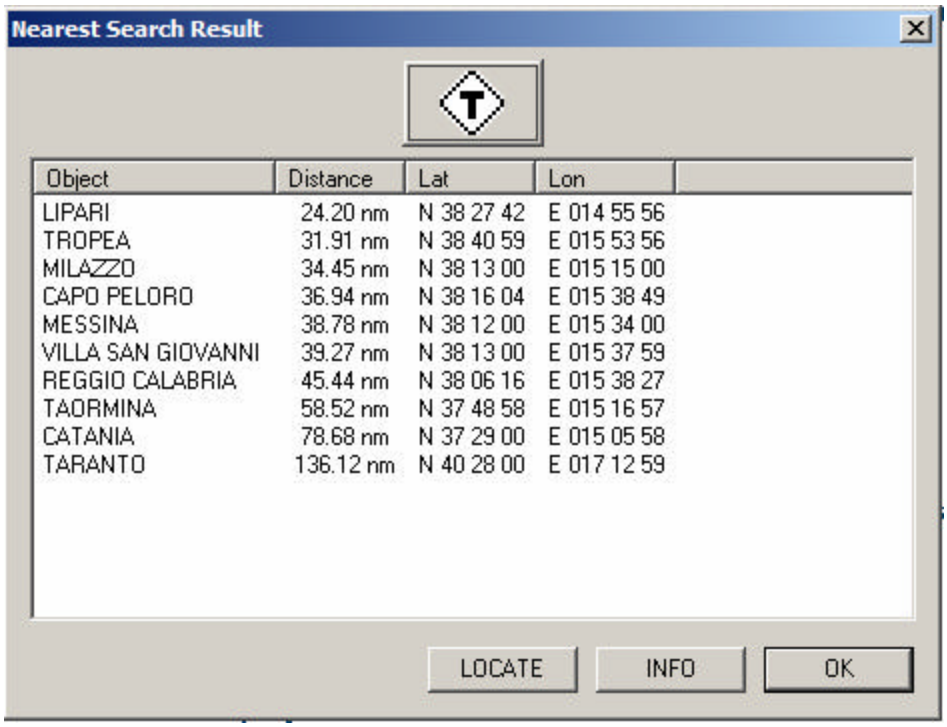
Locate...
To locate the port service selected.

Info...
To open the pop-up window with the info on it.

OK
To close the window.

6.2.3. Nearest Tide Stations

Selecting Nearest Tide Stations, the following pop-up window will be opened showing the nearest 10 stations:


Nearest Search Result
Object
Distance
Lat
Lon
LIPARI 24.20 nm N 38 27 42 E 014 55 56
TROPEA 31.91 nm N 38 40 59 E 015 53 56
MILAZZO 34.45 nm N 38 13 00 E 015 15 00
CAPO PELORO 36.94 nm N 38 16 04 E 015 38 49
MESSINA 38.78 nm N 38 12 00 E 015 34 00
VILLA SAN GIOVANNI 39.27 nm N 38 13 00 E 015 37 59
REGGIO CALABRIA 45.44 nm N 38 06 16 E 015 38 27
TAORMINA 58.52 nm N 37 48 58 E 015 16 57
CATANIA 78.68 nm N 37 29 00 E 015 05 58
TARANTO 136.12 nm N 40 28 00 E 017 12 59
LOCATE
INFO
OK

The functions available are:

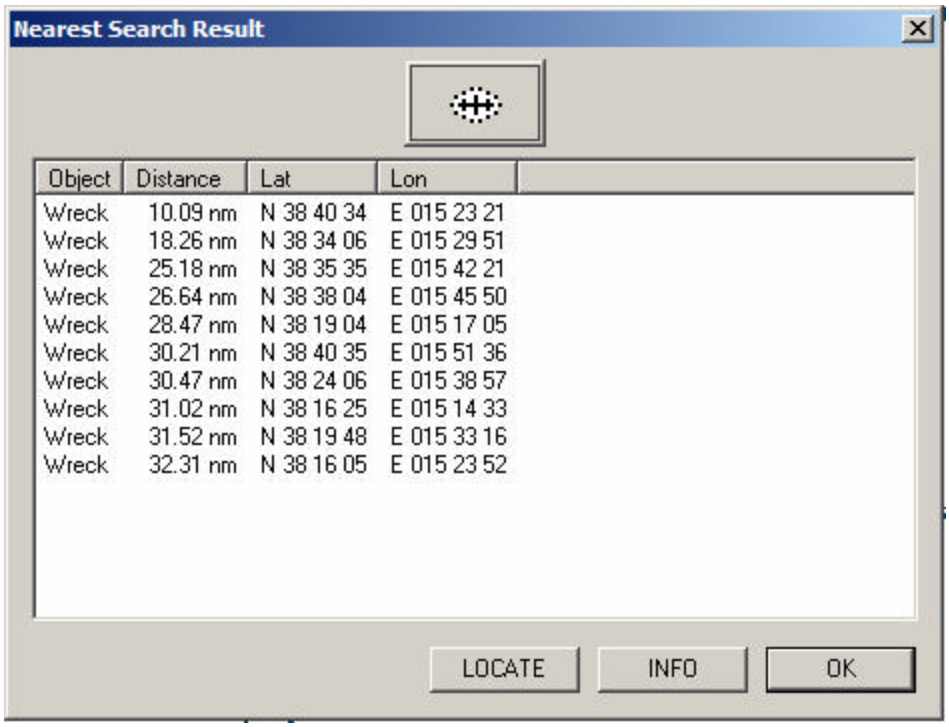
Locate...
To locate the tide station selected.

Info...
To open the pop-up window with the info on it.

OK
To close the window.

6.2.4. Nearest Wrecks

Selecting Nearest Wrecks, the following pop-up window will be opened showing the nearest 10 wrecks:



The functions available are:

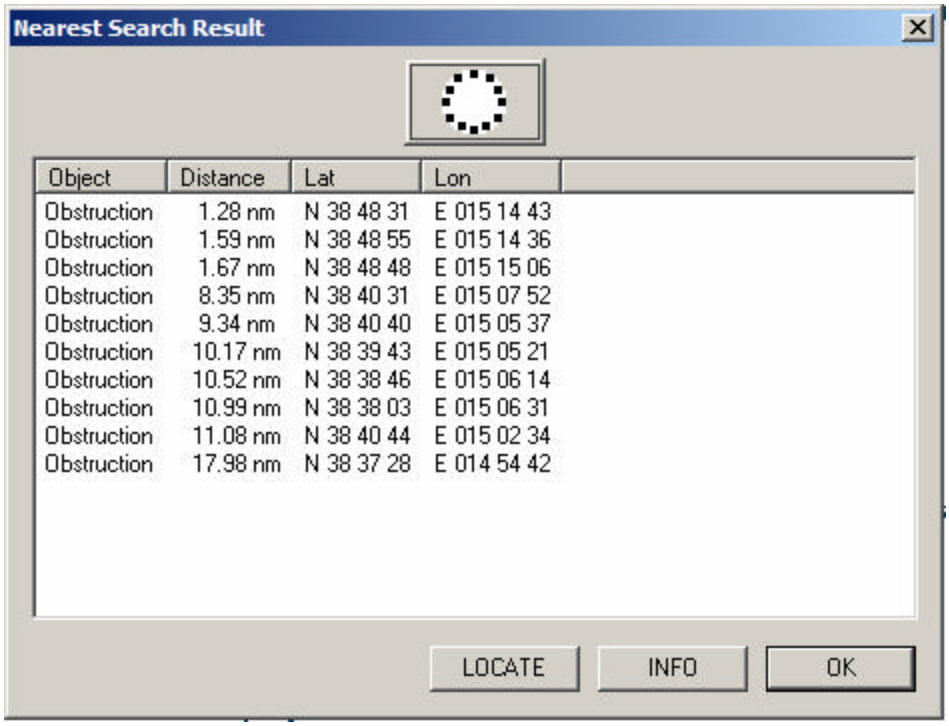
Locate...
To locate the wreck selected.

Info...
To open the pop-up window with the info on it.

OK
To close the window.

6.2.5. Nearest Obstructions

Selecting Nearest Obstructions, the following pop-up window will be opened showing the nearest 10 obstructions:


Nearest Search Result
Object
Distance
Lat
Lon
Obstruction 1.28 nm N 38 48 31 E 015 14 43
Obstruction 1.59 nm N 38 48 55 E 015 14 36
Obstruction 1.67 nm N 38 48 48 E 015 15 06
Obstruction 8.35 nm N 38 40 31 E 015 07 52
Obstruction 9.34 nm N 38 40 40 E 015 05 37
Obstruction 10.17 nm N 38 39 43 E 015 05 21
Obstruction 10.52 nm N 38 38 46 E 015 06 14
Obstruction 10.99 nm N 38 38 03 E 015 06 31
Obstruction 11.08 nm N 38 40 44 E 015 02 34
Obstruction 17.98 nm N 38 37 28 E 014 54 42
LOCATE
INFO
OK

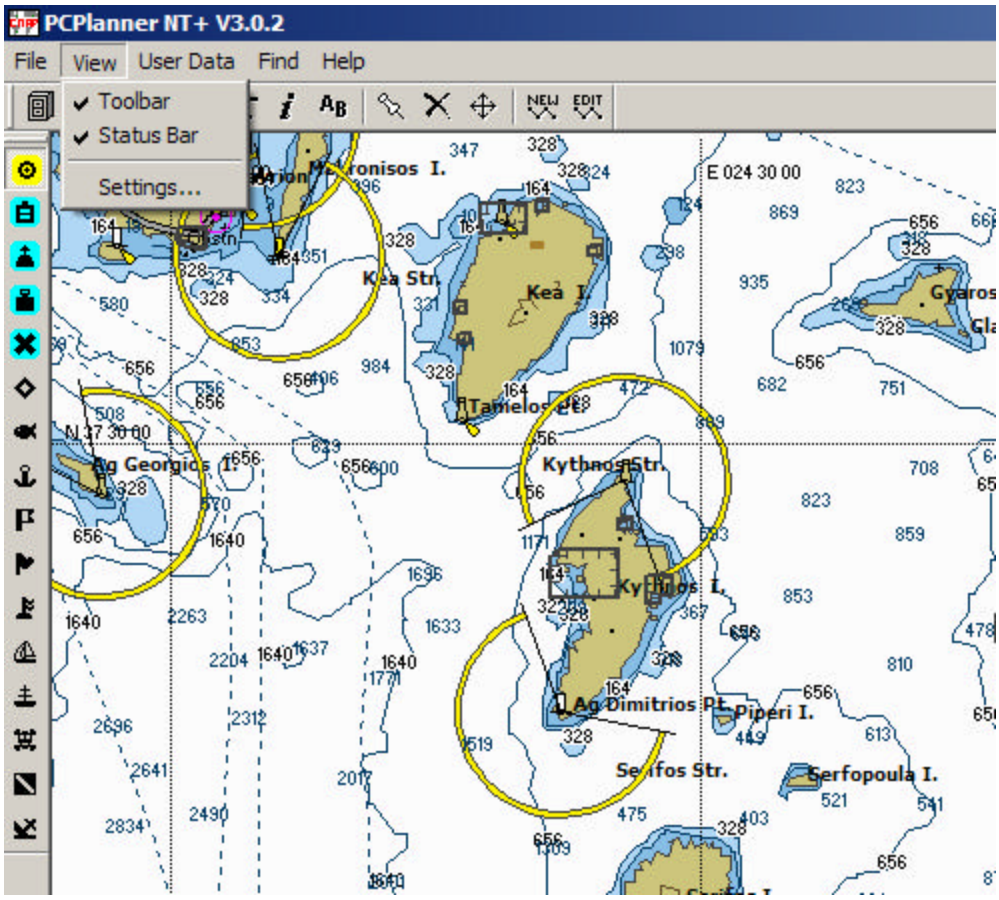
The functions available are:

Locate...
To locate the obstruction selected.

Info...
To open the pop-up window with the info on it.

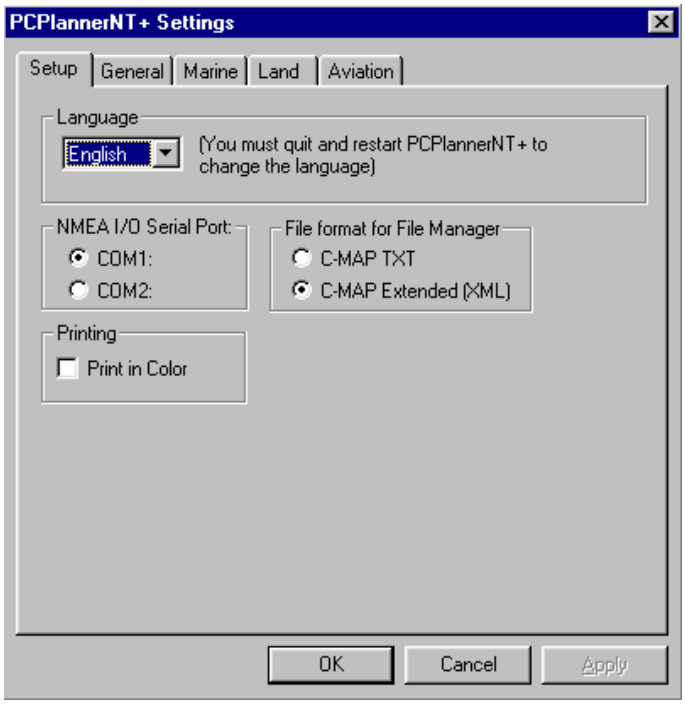
OK
To close the window.

6.3. VIEW: Options and Settings



6.3.1. Settings/Setup

To setup PC-PLANNER NT+, select **View** on main menu and then **Settings...Setup.**



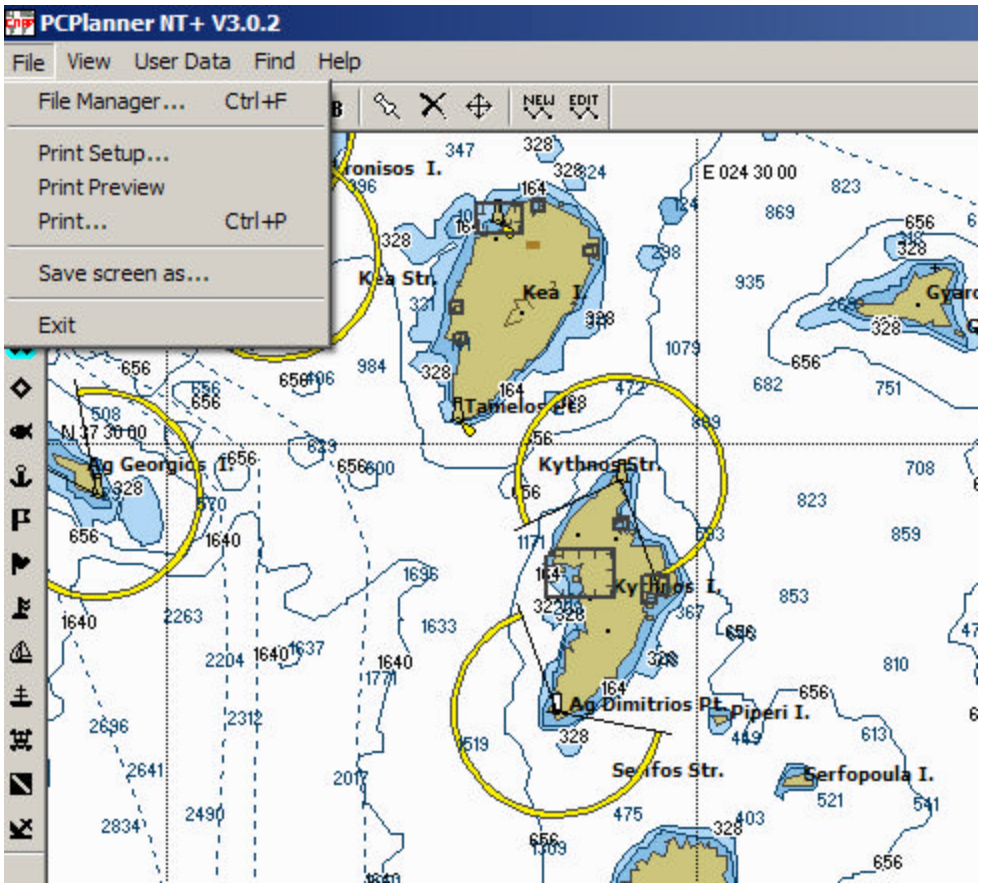
The **Setup window** will allow you to select English or Italian language, to select the **NMEA I/O Serial Port** used to upload/download data with external devices, and to select the **File format for File Manager** that will be used to store the files to the HARD DISK (XML or TXT).

In the PC-PLANNER NT+ directory you will find software called **ConvertXML.EXE** that allows files to be converted from XML to CSV format and vice versa.

This is also where you can select to **Print in Color.** If this option is unchecked, then all printing will be done in black and white.

All the settings will be saved and the language change will only be applied if you quit and restart PC-PLANNER NT+.

6.4. FILE

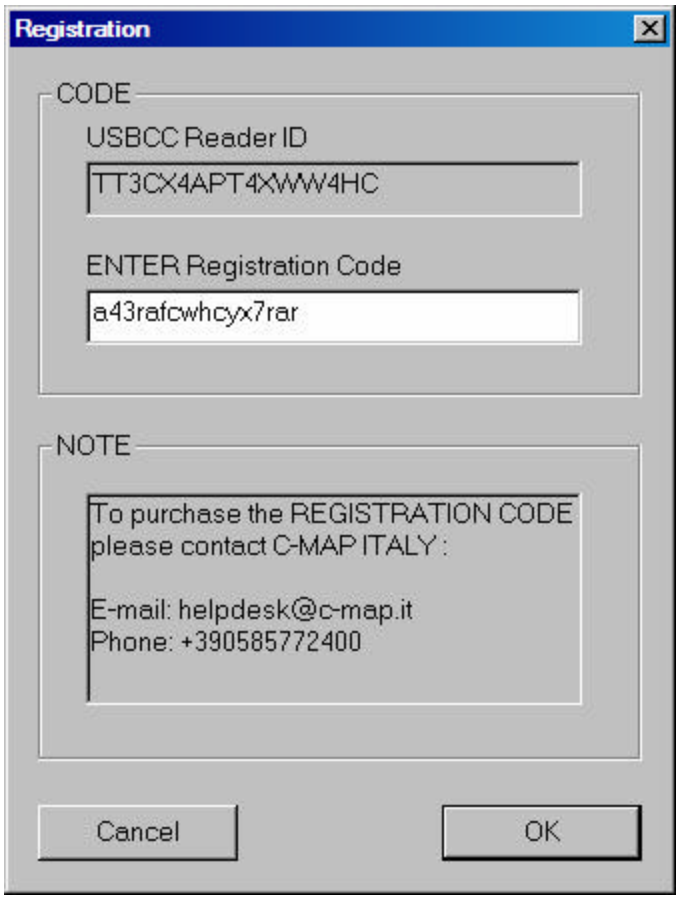


6.4.1. Save screen as…

To generate a PNG (PORTABLE NETWORK GRAPHIC) file that contains the screen image, select **File** on main menu an then **Save screen as…**. A pop up window will appear to allow you to enter the file name. The resulting *.PNG file can be viewed in your web browser.

7. USBCC USER REGISTRATION

On the first run of PC-PLANNER NT+ with the USBCC reader connected, the following popup window will appear asking for the REGISTRATION code:



If you have purchased PC-PLANNER NT+ with the USBCC reader, find the code located on the bottom of the reader as below, and write the code in the white input field of the window above.

Customers who have already purchased the USBCC reader, can obtain the Registration code and the PC Planner NT+ software from C-MAP S.r.l. (email: helpdesk@c-map.it , fax +390585631282) giving the USBCC Reader ID code that is written in the gray field on the Registration window (see above).

8. PC-PLANNER NT+ SUPPORT

C-MAP is committed to guaranteeing the highest quality of support and service to its customers. In order to achieve this objective, we urge you to register with us as soon as possible. Simply send the following information to C-MAP via fax (508.477.6168) or e-mail: helpdesk@c-map.it.

- First and Last Name.
- Telephone Number.
- Serial Number (printed on the rear case of your C-card reader, included in the PC-PLANNER NT+ Kit).
- E-mail Address (if applicable).
- C-MAP *NT* based charting system that you own (optional).

Your registration will be confirmed with C-MAP upon receipt. This confirmation will contain a free password to access the PC-PLANNER NT+ web site (pcplannernt.c-map.it), where you'll find software updates, a user manual and other pertinent information.

Thank you for choosing C-MAP.....Happy Planning!